This printed version of the Schedule of Classes is current as of 8/10/18 2:11 PM.

AASP African American Studies Fall 2017

AASP100 **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Shane Walsh MWF 10:00am - 10:50am	Seats (Total: 35) WDS 1114
0201	Shane Walsh MWF 12:00pm - 12:50pm	Seats (Total: 35) TYD 1101
0301	Jonathan England TuTh 9:30am - 10:45am	Seats (Total: 35) LEF 1201
0401	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 30) HBK 0109
0501	Jason Nichols TuTh 11:00am - 12:15pm	Seats (Total: 35) SYM 0215
0601	Jason Nichols TuTh 2:00pm - 3:15pm	Seats (Total: 35) PLS 1117

AASP100H **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 5) HBK 0109

AASP101 **Public Policy and the Black Community**

Credits: 3	Grading Method: Regular, Pass-Fail	CORE: SB	General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

0101	Alana Hackshaw	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SQH 1121

AASP187 **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

Credits: 3	Grading Method: Regular, Pass-Fail	General Education: DSHS, DVUP, SCIS

Recommended: AASP100.

Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.

0101	Joseph Richardson	Seats (Total: 60)
	TuTh 3:00pm - 4:15pm	TYD 0117

AASP189I **HIV/AIDS in a Global Perspective**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: IE, D	General Education: DSSP, DVUP, SCIS

0101	Sangeetha Madhavan	Seats (Total: 60)
	TuTh 9:30am - 10:45am	TYD 0102

AASP200 **African Civilization**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHU

A survey of African civilizations from 4500 B.C. to present. Analysis of traditional social systems. Discussion of the impact of European colonization on these civilizations. Analysis of the influence of traditional African social systems on modern African institutions as well as discussion of contemporary processes of Africanization.

0101	George Kintiba MW 12:00pm - 1:15pm	Seats (Total: 40) ARC 1103

AASP202 **Black Culture in the United States**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Renina Jarmon MWF 11:00am - 11:50am	Seats (Total: 35) TYD 1101
0102	Renina Jarmon MWF 1:00pm - 1:50pm	Seats (Total: 35) SQH 1107
0103	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 35) ARC 1105
0104	Robert Choflet TuTh 2:00pm - 3:15pm	Seats (Total: 35) LEF 1201

AASP202H **Black Culture in the United States**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 8) ARC 1105

AASP274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must not have completed any courses from ENGL278C, AASP274, AASP298W, ENGL274, ENGL271, ENGL294N, or ENGL294. Also offered as: ENGL274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Dorothy Phaire	Seats (Total: 20)
	TuTh 9:30am - 10:45am	NCC 0120

AASP297 **Research Methods in African American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101 or AASP202. Restriction: Must be in African American Studies program. Credit only granted for: AASP297 or AASP299R. Formerly: AASP299R.

Introduces African American Studies majors to the basic research skills methodologies, sources, and repositories for studying African Diaspora. Students will be required to select a research topic, write a research proposal, develop an annotated bibliography, and in the process will be prepared for completing their senior thesis or other significant writing projects necessary to fulfill the requirements of the major.

0101	Sharon Harley	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TLF 1102

AASP298B **Special Topics in African American Studies; Construction of Black Manhood and Womanhood in the Black Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as WMST265. Credit only granted for AASP298B or WMST265. Investigates the ways that African Americans are represented and constructed in public and private spheres and explores the social constructions and representations of Black manhood and womanhood from various disciplinary perspectives.

0101	Donnesha Blake	Seats (Total: 30)
	W 6:00pm - 8:30pm	JMZ 0103

AASP298C **Special Topics in African American Studies; African-American History to 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Christopher Bonner TuTh 11:00am - 12:15pm	Seats (Total: 40) KEY 0103

AASP298L **Special Topics in Afro-American Studies: African-American Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as ENGL234. Credit granted for AASP298L or ENGL234.

0201	Norrell Edwards MWF 12:00pm - 12:50pm	Seats (Total: 30) JMZ 0208

AASP298V **Special Topics in African American Studies; The Blues as a Cultural Art Form**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

0101	Brittney Allen W 1:00pm - 4:00pm	Seats (Total: 30) NCC 0130

AASP301 **Applied Policy Analysis and the Black Community**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101; and (ECON201 or ECON200). Recommended: Completion of one semester of statistics is recommended.

Development and application of the tools needed for examining the effectiveness of alternative policy options confronting minority communities. Review policy research methods used in forming and evaluating policies. Examination of the policy process.

0101	Ricco Hall W 6:30pm - 9:00pm	Seats (Total: 24) TLF 1101

AASP313 **Black Women in United States History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: WMST314. Credit only granted for: AASP498W, AASP313, HIST329E, WMST314, or WMST498N. Formerly: AASP498W.

Black American women's history is examined from slavery to the present. The principal focus of the readings discussions and student assignments will be based upon gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social change agents. A variety of primary source materials on black women's experiences will be utilized.

Also offered as HIST329E and WMST314. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown M 6:00pm - 8:30pm	Seats (Total: 35) KEY 0103

AASP314 **The Civil Rights Movement**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP100 or HIST157.

Survey of the twentieth century civil rights movement from the desegregation of UM Law School through the National Black Political Congress in Gary in 1972. Major themes include leadership, legal and constitutional challenges, non-violence, Black Power, and Pan-Africanism.

0101	Jerry Semper W 4:00pm - 6:30pm	Seats (Total: 45) SQH 1121

AASP386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-African American Studies department; and junior standing or higher.

0101	Marshal Washington Th 10:00am - 12:30pm	Seats (Total: 10) ASY 3221

AASP395 **Fundamentals of Quantitative Research in Socio-Cultural Perspective**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in African American Studies program; and junior standing or higher.

Introduction to quantitative methods for African American Studies major in the cultural and social analysis concentration. Basics of survey design and experimental design and data analysis and use of statistical software programs.

0101	Cecily Hardaway	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	WDS 1131

AASP396 **Independent Study Non-Thesis Option**

Credits: 3 Grading Method: Regular

Prerequisite: AASP386 and AASP297. Restriction: Must be in African American Studies program. Credit only granted for: AASP396 or AASP397.

A research seminar that allows African American Studies majors to complete an independent study research project in lieu of completing the AASP397: Senior Thesis. Students will examine various concepts of race, gender, labor and ethnicity in the seminar lecture component to be applied toward their specific research projects.

0101	Caryn Bell	Seats (Total: 10)
	W 3:00pm - 5:30pm	TLF 1102

AASP397 **Senior Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-African American Studies department.

Directed research in African American Studies resulting in the completion and defense of a senior thesis.

Contact department for information to register for this course.

AASP398Q **Selected Topics in the African Diaspora; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	Robert Choflet	Seats (Total: 35)
	Th 4:00pm - 6:30pm	TYD 1114

AASP400 **Directed Readings in African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

Also offered as WMST498Y. Credit will be granted for one of the following: AASP400, AASP400H, or WMST498Y.

0101	Sharon Harley TuTh 12:30pm - 1:45pm	Seats (Total: 15) KEY 0100

AASP400H **Directed Readings in African American Studies**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

For general honors students only. The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

0101	Sharon Harley TuTh 12:30pm - 1:45pm	Seats (Total: 5) KEY 0100

AASP478K **Humanities Topics in African American Studies; African-American Literature: 1945 to Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

Contact department for information to register for this course.

AASP498O **Special Topics in Black Culture; African American and Latino Social, Cultural and Political Relations: 1940 to Present**

Credits: 3 | Grading Method: Regular

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Jason Nichols	Seats (Total: 35)
	W 4:00pm - 6:30pm	TYD 1118

AASP498T **Special Topics in Black Culture; Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as AMST428D, ARCH428L, ARCH628L, ANTH433 and ANTH633. Credit only granted for ANTH433, ANTH633, AMST428D, ARCH428L, ARCH628L, or AASP498T. Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

0101	Mark Leone	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	WDS 1130

AASP499A **Advanced Topics in Public Policy and the Black Community; Reducing Black - White Achievement Gaps**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Oscar Barbarin	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TWS 1320

AASP499P **Advanced Topics in Public Policy and the Black Community; African-American Politics from Frederick Douglass to Barack Obama**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Jonathan England Tu 3:30pm - 6:15pm	Seats (Total: 35) LEF 1201

AAST Asian American Studies Fall 2017

AAST200 Introduction to Asian American Studies

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SB, D | General Education: DSHS, DVUP

The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.

Also offered as AMST298C. Credit granted for AAST200 or AMST298C.

0101	Terry Park TuTh 11:00am - 12:15pm	Seats (Total: 40) SQH 1101

AAST201 Asian American History

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Also offered as: HIST221. Credit only granted for: AAST201, HIST219G, HIST219M, or HIST221.

Introduction to the history of Asian Americans and Asians in the United States and the Americas and to the field of Asian American Studies, from an interdisciplinary perspective. Topics include theories of race and ethnicity; Asian migration and diaspora to the Americas; Asian American work and labor issues; gender, family, and communities; nationalism and nativism, and anti-Asian movements; Asian Americans in World War II, the Cold War, and the issues in the civil rights & post-civil rights era.

0101	Terry Park TuTh 2:00pm - 3:15pm	Seats (Total: 30) SQH 1101

AAST222 Immigration and Ethnicity in America

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Credit only granted for: AAST222 or HIST222.

The history of immigration and the development of diverse populations in the United States are examined. Topics include related political controversies, the social experiences of immigrants, ethnicity, generations, migration, inter-group relations, race and diversity in American culture.

0101	Julie Park	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	SQH 1117

AAST298A **Special Topics in Asian American Studies; Islam in/and America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory multidisciplinary and interdisciplinary educational experience to explore issues relevant to Asian American life, cultural experiences; and political, economic, and artistic development.

Also offered as AMST298I. Credit granted for AAST298A or AMST298I. Islam in/and America examines the history and presence of Islam in the United States, and the construction and evolution of U.S. Muslim identity, community, and culture. A CIC CourseShare online course and part of the DISC initiative (Digital Islamic Studies Curriculum).The instructor is Sylvia Chan- Malik (American Studies/Women's and Gender Studies/Asian American Studies) at Rutgers University, but you enroll and receive credit for it at Maryland. You will also need to be entered into the University of Michigan Canvas course management system. The course meets twice a week in real time using video conferencing technology. For more information about this course, including textbook information and instructions on enrolling, please contact Prof.Janelle Wong (janellew@umd.edu)

0101	Ilyas Abukar	Seats (Total: 10)
	TuTh 1:10pm - 2:30pm	HJP 3120

AAST378 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Field experience/internship in professional organizations and appropriate private and governmental agencies serving the Asian American community.

0101	Julie Park	Seats (Total: 2)
	Contact instructor or department for details.	

AAST388 **Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed, independent study in Asian American Studies resulting in the completion of an original research paper.

0101	Terry Park	Seats (Total: 5)
	Contact instructor or department for details.	

AAST398B **Selected Topics in Asian American Studies; Asian American Social Policy and Community Advocacy**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU, DVUP

Study of a specific theme or issue involving the Asian America experience.

Also offered as PLCY359A. Credit granted for AAST398B or PLCY359A. This course focuses on how Asian and Pacific Americans are represented in government and throughout social policies in the United States. The ways in which racial and gender dynamics intersect with migration policy, community development, and other pressing issues is explored.

0101	Tuyet Duong	Seats (Total: 25)
	TuTh 8:00am - 9:15am	SQH 1107

AAST398D **Selected Topics in Asian American Studies; Filipino American History and Biography**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, DVUP

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328J. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy. We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus	Seats (Total: 35)
	Tu 5:00pm - 7:45pm	ASY 3207

AAST398E **Selected Topics in Asian American Studies; Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DVCC

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328V and IMMR319G. Credit granted for AAST398E or AMST328V or IMMR319G. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Thu Khuc	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ASY 3211

AAST398F **Selected Topics in Asian American Studies; Introduction to Comparative Ethnic Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328L. Credit granted for AMST328L or AAST398F.

0101	Janelle Wong	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMP 2202

AAST398L **Selected Topics in Asian American Studies; Asian American Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Study of a specific theme or issue involving the Asian America experience.

0101	Thu Khuc	Seats (Total: 30)
	Th 5:00pm - 7:30pm	TYD 0101

AAST443 **Asian American Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Credit only granted for: AAST498T, AAST443, GVPT368C or AMST 498J. Formerly: AAST498T.

Students will gain a greater understanding of 1)the role of Asian Americans in US politics, 2) the political attitudes and behaviors of Asian Americans and 3)how to conduct research on Asian American politics. Though the class will concentrate on Asian Americans, issues related to Asian American politics will be examined within the larger context of America's multicultural political landscape.

0101	Janelle Wong MW 2:00pm - 3:15pm	Seats (Total: 40) SQH 1101

AAST498D **Advanced Topics in Asian American Studies; Asian American Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AAST498D. Credit granted for THET489D or AAST498D.

0101	Esther Lee TuTh 11:00am - 12:15pm	Seats (Total: 20) PAC 1809

AAST498I **Advanced Topics in Asian American Studies; Asian American Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Students will be introduced to leadership models and examples specific to Asian American & Pacific Islander communities throughout history and in current times. While the central objective of this course is to develop politically engaged and historically informed leaders and community members for the AAPI campus community, this course is open to anyone who is interested in social justice and learning more about student organizing around identity.

0101	Kai Kai Mascarenas TuTh 11:00am - 12:15pm Contact instructor or department for details.	Seats (Total: 20) HBK 0115

AAST498J **Advanced Topics in Asian American Studies; Asian American Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AMST498Q and PSYC489Z. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency.

0101	Kieu Anh Do	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

AAST498M **Advanced Topics in Asian American Studies; Asian American Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

0101	Philip Nash	Seats (Total: 20)
	M 5:00pm - 7:30pm	SQH 1123

AGNR Agriculture and Natural Resources Fall 2017

AGNR200 **AGNR 2+2 Program Extended Orientation Seminar**

Credits: 1 Grading Method: Regular

Prerequisite: Must be a first semester international student enrolled in the AGNR 2+2 Program. Restriction: Must be a first year international student enrolled in the College of Agriculture and Natural Resources 2+2 Program. Additional information: It is strongly recommended that AGNR 2+2 students take AGNR 200 during the first semester at the University. One class meeting per week. This courses is initiated by International Programs and will be coordinated in conjunction with the College of AGNR.

Introduces AGNR 2+2 students to University and "American" life. Assists with their successful transition to the College and Agriculture and Natural Resources and the University of Maryland. Helps students to understand their place in AGNR at to learn about the resources available to them.

0101	Cuiyin Wu	Seats (Total: 25)
	M 4:00pm - 6:00pm	TWS 1313

AGNR270 **Technology Training Seminar**

Credits: 2-3 Grading Method: Regular

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-College of Agriculture & Natural Resources. Also offered as: BSCI279. Credit only granted for: AGNR270 or BSCI279.

A hands-on training seminar about pedagogical applications of information technology and mastery of several technical skills. Special emphasis is placed on gainfully understanding technological issues such as copyright and intellectual property, accessibility, and usability.

0101	Deborah Mateik	Seats (Total: 3)
	F 10:00am - 12:30pm	ESJ 2309

AGNR301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: PUAF301. Credit only granted for: AGNR301 or PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Scala	Seats (Total: 165)
	TuTh 12:30pm - 1:45pm	LEF 2205

AGNR388 **Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0101	Evelyn Cooper	Seats (Total: 5)
	Contact instructor or department for details.	

AGNR489 **Field Experience**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of the course. A lecture series organized to study in depth a selected phase of agriculture not normally associated with one of the existing programs.

0101	Evelyn Cooper	Seats (Total: 5)
	Contact instructor or department for details.	

AGNR499 **Special Problems; Special Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0102	Evelyn Cooper	Seats (Total: 1)
	Contact instructor or department for details.	

AMSC Applied Mathematics & Scientific Computation — Fall 2017

AMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131). Also offered as: CMSC460. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Daisy Dahiya	Seats (Total: 29)
	MWF 11:00am - 11:50am	MTH 0303
0201	Jacob Bedrossian	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	MTH 0405
0301	Tobias von Petersdorff	Seats (Total: 29)
	MWF 2:00pm - 2:50pm	MTH 0411
0401	Juan Pablo Borthagaray	Seats (Total: 27)
	MWF 11:00am - 11:50am	MTH 0102

AMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131). Also offered as: CMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Dionisios Margetis MWF 9:00am - 9:50am	Seats (Total: 30) MTH 0303

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC660 **Scientific Computing I**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear integration, interpolation); and permission of instructor). Also offered as: CMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software of each topic.

0101	Jacob Bedrossian TuTh 2:00pm - 3:15pm	Seats (Total: 28) MTH B0425

AMSC662 **Computer Organization and Programming for Scientific Computing**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: CMSC662. Credit only granted for: AMSC662 or CMSC662.

This course presents fundamental issues of computer hardware, software, parallel computing, and scientific data management for programming for scientific computation.

0101	Pierre-Emmanuel Jabin	Seats (Total: 25)
	MW 5:00pm - 6:15pm	CSI 4122

AMSC663 **Advanced Scientific Computing I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CMSC660 or AMSC660; and (CMSC661 or AMSC661). Restriction: Permission of instructor. Also offered as: CMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence AMSC663, AMSC664 students work on a year-long individual project to develop software for a scientific task in a high performance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Howard Elman	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PHY 4222

AMSC666 **Numerical Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: CMSC666. Credit only granted for: AMSC666 or CMSC666.

Approximation theory, numerical solution of initial-value problems, iterative methods for linear systems, optimization.

Click here for more course information.

0101	Eitan Tadmor	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 4122

AMSC670 **Ordinary Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH405. And MATH410; or students who have taken courses with comparable content may contact the department. Also offered as: MATH670. Credit only granted for: AMSC670 or MATH670.

Existence and uniqueness, linear systems usually with Floquet theory for periodic systems, linearization and stability, planar systems usually with Poincare-Bendixson theorem.

0101	Dmitry Dolgopyat	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0407

AMSC673 **Partial Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: MATH673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only. Also offered as MATH673.

0101	Konstantina Trivisa	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MTH 0307

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC714 **Numerical Methods For Stationary PDEs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: One graduate level course in partial differential equations or one graduate level course in numerical analysis or scientific computing; or permission of instructor. Credit only granted for: AMSC 714 or AMSC 614. Formerly: AMSC614. Additional information: This course is a complement to the graduate courses MATH 673 and MATH 674 in PDEs, AMSC 666 in numerical analysis, and AMSC 660 and AMSC 661 in scientific computing.

Topics include: Maximum principle, finite difference method, upwinding, error analysis; Variational formulation of elliptic problems, inf-sup theory; The finite element method and its implementation; Piecewise polynomial interpolation theory in Sobolev spaces; A priori and a posteriori error analyses, adaptivity; Fast solvers; Variational crimes; Mixed finite element methods.

0101	Ricardo Nochetto	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	MTH 1313

AMSC760 **Applied Statistics Practicum**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.

A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.

0101	Konstantina Trivisa	Seats (Total: 22)
	Contact instructor or department for details.	

AMSC762 **Data Analysis Project**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of CMNS-Applied Mathematics department; and permission of instructor.

This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.

0101	Konstantina Trivisa	Seats (Total: 25)
	Contact instructor or department for details.	

AMSC763 **Advanced Linear Numerical Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AMSC666 or CMSC666; or permission of instructor. Also offered as: CMSC760. Credit only granted for: AMSC600 or CMSC760; AMSC763 or CMSC763;. Formerly: AMSC600.

Advanced topics in numerical linear algebra, such as dense eigenvalue problems, sparse elimination, iterative methods, and other topics.

Also offered as CMSC763. Credit granted for AMSC763 or CMSC763.

0101	Howard Elman	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 3120

AMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC808A **Advanced Topics in Applied Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

AMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST American Studies Fall 2017

AMST101 **Introduction American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

0101	Brienne Adams MWF 9:00am - 9:50am	Seats (Total: 25) KEY 0123	
0201	Ian Funk MWF 1:00pm - 1:50pm	Seats (Total: 25) KEY 0126	
0301	Jacqueline Partida TuTh 8:00am - 9:15am	Seats (Total: 25) KEY 0120	
0401	Robert Chester TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMP 1202	
FCH1	Kelsey Michael F 10:00am - 11:15am Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ARC 1101 ONLINE	Discussion
FCH2	Kelsey Michael Tu 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) TLF 1103 ONLINE	Discussion

AMST202 **Cultures of Everyday Life in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Examine the structures and patterns of everyday life in the U.S., utilizing methods such as ethnography, oral history, survey research, and textual, visual, and material cultural analysis.

0101	Ashley Minner MWF 10:00am - 10:50am	Seats (Total: 25) KEY 0116

AMST203 **Popular Culture in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

FCH1	A Anthony F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 22) ASY 3203 ONLINE	Discussion
FCH2	A Anthony F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103 ONLINE	Discussion

AMST204 **Film and American Culture Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

Exploration of the American film from a historical perspective, illustrating the motion picture's role as an institutional phenomenon, as a form of communication, and as a source of cross-cultural study.

0101	Susan Pramschufer TuTh 9:30am - 10:45am	Seats (Total: 35) HBK 0302J

AMST205 **Material Aspects of American Life**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Historical survey of American material culture. Ways of describing and interpreting accumulated material evidence (e.g., buildings, town plans) introduced by stressing relationship between artifact and culture.

0101	Shoji Sanders TuTh 9:30am - 10:45am	Seats (Total: 25) JMZ 0125	
FCH1	Jung Kim F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 25) KEY 0126 ONLINE	Discussion
FCH2	Jung Kim F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KEY 0116 ONLINE	Discussion

AMST260 **American Culture in the Information Age**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

Credit only granted for: AMST260 or AMST298I. Formerly: AMST298I.

Examines the ways in which content and form of public information interact with the culture, families & individuals.

0101	Asim Ali MW 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 TWS 0134	Discussion
0102	Asim Ali MW 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 TWS 0330	Discussion
0103	Asim Ali MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 TWS 0134	Discussion
0104	Asim Ali MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 TWS 0330	Discussion

AMST269A **Special Topics in Study Abroad II; Americanism and Anti-Americanism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

AMST298C **Introduction to Asian American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SB, D | General Education: DSHS, DVUP

Also offered as AAST200. Credit granted for AAST200 or AMST298C.

0101	Terry Park TuTh 11:00am - 12:15pm	Seats (Total: 40) SQH 1101	

AMST298I **Selected Topics in American Studies; Islam in/and America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Also offered as AAST298A. Credit granted for AAST298A or AMST298I.

0101	Ilyas Abukar	Seats (Total: 10)
	TuTh 1:10pm - 2:30pm	HJP 3120

AMST298Q **Selected Topics in American Studies; U.S. Latina/o Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Also offered as ENGL235. Credit granted for ENGL235 or AMST298Q.

0201	Sharada Balachandran Orihuela	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TWS 0214

AMST328E **Perspectives on Identity and Culture; Afro-Latinx Diasporas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as USLT319A. Credit granted for USLT319A or AMST328E. Students will examine the history of the African diaspora and the Afro-Latinx populations in the United States. Explores transnational migrations, comparative slave systems, labor, community formation, gender, sexuality, popular culture, and the changing meanings of blackness and latinidad.

0101	Nancy Mirabal	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	TWS 0134

AMST328J **Perspectives on Identity and Culture; Filipino American History and Biography**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered ad AAST398D. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus Tu 5:00pm - 7:45pm	Seats (Total: 35) ASY 3207

AMST328L **Perspectives on Identity and Culture; Introduction to Comparative Ethnic Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398F. Credit granted for AMST328L or AAST398F.

0101	Janelle Wong MWF 11:00am - 11:50am	Seats (Total: 25) JMP 2202

AMST340 **Introduction to History, Theories and Methods in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed AMST201; and 2 courses in AMST. Restriction: Must be in American Studies program; and sophomore standing or higher.

Introduction to the process of interdisciplinary research, including research literatures, questions, first-hand sources and library and analytic methods in American Studies. Each student will craft a prospectus for original research.

0101	Asim Ali TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 0134
0201	Asim Ali MW 11:00am - 12:15pm	Seats (Total: 15) TWS 0134

AMST386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-American Studies department; and junior standing or higher.

0401	Mary Sies	Seats (Total: 10)
	Contact instructor or department for details.	

AMST388 **Honors Thesis**

(Perm req)

Credits: 3

Grading Method: Regular

Individual research, thesis and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

AMST398 **Independent Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Contact department for information to register for this course.

AMST418H **Cultural Themes in America; Cultural Themes in America-Honors**

(Perm req)

Credits: 3

Grading Method: Regular

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

Contact department for information to register for this course.

AMST418O **Cultural Themes in America; African American Humor and Its Social Context**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

We will examine formal aspects of African American humor as well as the historical, political, and sociocultural contexts surrounding that humor. The course curriculum will include black vernacular practices such as toasting, signifying, and the dozens; the comedic writing of authors and playwrights such as Zora Neale Hurston, George C. Wolfe, Suzan-Lori Parks, and Paul Beatty; and the performances of such comedians as Bert Williams, Moms Mabley, Richard Pryor, Whoopi Goldberg, Eddie Murphy, Dave Chappelle, and Issa Rae. Throughout, we will focus on humor's uses for self-making, community-building, cultural critique, protest, venting, healing, and beyond.

0101	La Marr Bruce	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 0330

AMST428D **American Cultural Eras; Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Investigation of a decade, period, or generation as a case study in significant social change within an American context. Case studies include "Antebellum America, 1840-1860" and "American culture in the Great Depression."

Also offered as AASP498T, ARCH428L, ARCH628L, ANTH433 and ANTH633. Credit only granted for ANTH433, ANTH633,AMST428D, ARCH428L, ARCH628L, or AASP498T. Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

0101	Mark Leone	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	WDS 1130

AMST429G **Perspectives on Popular Culture; American Nobel Prize Winners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in popular culture studies, including the examination of particular genres, themes, and issues.

Also offered as ENGL439G. Credit granted for ENGL439G or AMST429G.

0101	Martha Nell Smith	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 0236

AMST450 **Seminar in American Studies**

(Perm req) Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: AMST201 and AMST340; and 1 course in AMST. Restriction: Senior standing; and must be in American Studies program.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

0201	Asim Ali	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TWS 0134

AMST498C **Special Topics in American Studies; Central Americans and the United States: Culture, Politics, and Community**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498D. Credit granted for USLT498D or AMST498C.

0101	Robert Chester	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 0134

AMST498L **Special Topics in American Studies; Native Americans and U.S. Cinema**

Credits: 3 Grading Method: Regular

Topics of special interest.

0101	Robert Chester	Seats (Total: 35)
	TuTh 9:30am - 10:45am	CHM 0128

AMST498Q **Special Topics in American Studies; Asian American Psychology**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as AAST498J and PSYC489Z. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency. Also offered as AAST498J. Credit granted for AMST498Q or AAST498J.

0101	Kieu Anh Do	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

AMST498V **Special Topics in American Studies; Sex and the City**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as LGBT448C. Credit granted for AMST498V or LGBT448C. This class adopts an interdisciplinary and intersectional approach to the study of sex and the city. Although the class focuses on the experiences of lesbian, gay, bisexual, and transgender (LGBT) people, the class also considers marginalized sexualities more generally, including a range of identities and practices that do not fall into dominant definitions of heterosexuality. Central throughout is an 0nalysis of how the politics of sexuality is shaped by race, gender, and and the economy. Units include Progressive-era city reforms, sub-cultural studies of the Chicago School, the history of pre-Stonewall sexual minority communities, theories of sexual migration, sex tourism, the Moynihan Report, LGBT and queer social movements, gender profiling, public sex, sexual labor, gentrification, street safety, and the representation of the city in cultural production.

0101	Christina Hanhardt	Seats (Total: 25)
	MW 2:00pm - 3:15pm	HBK 1112

AMST498W **Special Topics in American Studies; Globalization and the Diversifying US**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498N and IMMR419J. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1101

AMST601 **Introductory Theories and History in American Studies**

Credits: 3 Grading Method: Regular

Restriction: Must not be a Graduate Advanced Special Student.

Explores the formative literature, theories, research approaches, and history of American Studies.

0101	Jan Padios	Seats (Total: 15)
	M 4:00pm - 6:40pm	TWS 0134

AMST628B **Seminar in American Studies; Black Sexualities**

Credits: 3 Grading Method: Regular, Audit

Also offered as WMST698O. Credit granted for AMST628B or WMST698O. An interdisciplinary and intersectional seminar on black sex and sexualities in the West. We will approach sex and sexuality as charged sites of social relationssites where power, pleasure, vulnerability, abjection, violence, knowledge, and freedom are produced and negotiated. The course curriculum will include visual culture, fiction, music, histories of sexualities, black feminist theory, sociology, queer of color critique, performance theory, affect studies, critical pornography studies, and beyond.

0101	La Marr Bruce	Seats (Total: 20)
	Th 4:00pm - 6:40pm	TWS 0134

AMST629C **Seminar in American Studies; Deviance and Dominance in the City**

Credits: 3 Grading Method: Regular

0101	Christina Hanhardt	Seats (Total: 15)
	Tu 4:00pm - 6:40pm	TWS 0134

AMST698 **Directed Readings in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

This course is designed to provide students with the opportunity to pursue independent, interdisciplinary research and reading in specific aspects of American culture under the supervision of a faculty member.

Contact department for information to register for this course.

AMST798 **Non-Thesis Research**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST851 **Interpretation of Cultural Landscapes**

Credits: 3 Grading Method: Regular

A research seminar that provides students an opportunity to survey the principal approaches to studying a cultural landscape, learn how to apply and adapt a field research method, and produce a primary research report on a cultural landscape of their choice.

0101	Mary Sies	Seats (Total: 15)
	W 4:00pm - 6:40pm	TWS 0134

AMST856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AMST655. Also offered as: ANTH856, HIST810. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Elsa Barkley Brown	Seats (Total: 15)
	W 4:00pm - 6:40pm	TWS 1313

AMST857 **Museum Scholarship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: AMST856; and permission of Museum Scholarship Program required. Also offered as: ANTH857, HIST811. Credit only granted for: AMST857, ANTH857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander	Seats (Total: 3)
	Contact instructor or department for details.	

0401	Mary Sies	Seats (Total: 3)
	Contact instructor or department for details.	

AMST878A **American Studies Pedagogy Mentoring; Mentoring for First Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios	Seats (Total: 5)
	Contact instructor or department for details.	

AMST878B **American Studies Pedagogy Mentoring; Mentoring for Second Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios	Seats (Total: 5)
	Contact instructor or department for details.	

AMST878C **American Studies Pedagogy Mentoring; Mentoring for Third Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Jan Padios	Seats (Total: 5)
	Contact instructor or department for details.	

AMST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science Fall 2017

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

ANSC101 **Principles of Animal Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A comprehensive overview of the application of biology in the care and use of animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. The role of science in modern food production using animals will be emphasized.

0101	Kasey Moyes	Seats (Total: 225)
	MWF 1:00pm - 1:50pm	ESJ 0224

ANSC103 **Principles of Animal Science Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC101. Restriction: Must be in one of the following programs (Environmental Sci & Pol-Environment & Agriculture; Agricultural and Veterinary Medicine; Agricultural Science and Technology) ; or must be in a major within the AGNR-Animal & Avian Sciences department; or permission of department required for students in other College of AGNR programs.

Laboratory focusing on the application of biology in the care and use o animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. Labs will include live animals. Offered in fall semester only.

Students must pay a $50.00 laboratory materials fee.

0101	Robert Peters M 3:00pm - 4:50pm	Seats (Total: 24) ANS 1144	Lab
0201	Robert Peters Tu 2:00pm - 3:50pm	Seats (Total: 24) ANS 1144	Lab
0301	Robert Peters F 10:00am - 11:50am	Seats (Total: 24) ANS 1144	Lab
0401	Robert Peters Th 2:00pm - 3:50pm	Seats (Total: 24) ANS 1144	Lab
0501	Robert Peters W 3:00pm - 4:50pm	Seats (Total: 24) ANS 1144	Lab
0601	Robert Peters M 10:00am - 11:50am	Seats (Total: 24) ANS 1144	Lab

ANSC211 **Anatomy of Domestic Animals**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103. And BSCI105; or (BSCI170 and BSCI171). Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine).

Covering the anatomy of major species of domestic animals. The lecture portion utilizes a systemic approach to provide a general knowledge of both gross and microscopic mammalian structure. Comparative differences between the major domestic species are covered in these lectures. A regional approach is taken to study the gross anatomy of major domestic species in the laboratory portion. Offered fall semester only.

Offered fall only. Students must pay a $50.00 laboratory materials fee.

0101	Angela Black MW 2:00pm - 2:50pm Tu 9:00am - 12:00pm	Seats (Total: 22) ANS 0408 ANS 0108	Lab
0102	Angela Black MW 2:00pm - 2:50pm Tu 1:00pm - 4:00pm	Seats (Total: 22) ANS 0408 ANS 0108	Lab

0103	Angela Black MW 2:00pm - 2:50pm Th 9:00am - 12:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab
0104	Angela Black MW 2:00pm - 2:50pm Th 1:00pm - 4:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab

ANSC227 **Eating with Eyes Wide Open**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Students will investigate the tension that is created by trade-offs that, knowingly or not, are made by consumers relative to agricultural production methods and dietary choices. Course will inform students about their food supply so they can make informed decisions and practice intentional or informed eating.

0101	R Apter TuTh 9:30am - 10:20am M 1:00pm - 2:50pm	Seats (Total: 20) CHM 2201 ANS 1144	 Lab
0102	R Apter TuTh 9:30am - 10:20am W 8:00am - 9:50am	Seats (Total: 20) CHM 2201 ANS 1144	 Lab
0103	R Apter TuTh 9:30am - 10:20am W 1:00pm - 2:50pm	Seats (Total: 20) CHM 2201 ANS 1144	 Lab

ANSC242 **Dairy Cattle Management**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103. Formerly: ANSC240 and ANSC241.

All aspects of dairy production, including nutrition, reproduction, mastitis control, milking management, farmstead facilities, financial management and forage production.

0101	Richard Erdman TuTh 11:00am - 12:15pm	Seats (Total: 35) ANS 0408	

ANSC252 **Introduction to the Diseases of Wildlife**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI105; or (BSCI170 and BSCI171); or permission of AGNR-Animal & Avian Sciences department; or students who have taken courses with comparable content may contact the department.

The principal diseases of North American wildlife will be briefly considered. For each disease, specific attention will be given to the following: signs evidenced by the affected animal or bird, causative agent, means of transmission and effects of the disease on the population of the species involved.

Offered fall only.

0101	Cindy Driscoll	Seats (Total: 80)	
	M 4:00pm - 5:50pm	ANS 0408	
	M 6:00pm - 6:50pm	ANS 0408	Discussion

ANSC255 **Introduction to Aquaculture**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ANSC101 and ANSC103; or must have completed an introductory biology course.

Introduces the art and science of rearing aquatic animals and the essential principles of aquaculture. Students receive hands-on training in the methods required for successful husbandry and management of aquatic animals in their water environment.

0101	L Woods	Seats (Total: 20)
	TuTh 11:00am - 12:50pm	ANS 1144

ANSC270 **Animal Enterprise Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; or permission of instructor. Credit only granted for: ANSC270 or AREC306.

General principles of enterprise organization, management, and operation as applicable to food, livestock, and companion animals. Enterprise planning and establishment, management of financial, human, and animal resources, and other related topics will be investigated.

0101	R Apter	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	ANS 0412

ANSC275 **Introduction to Veterinary Medical Science and Practice**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS, DSSP

Prerequisite: BSCI105; or (BSCI170 and BSCI171).

The fundamentals of clinical veterinary medical practice and the research that supports it. Topics presented will include the histology, gross anatomy and physiology of the musculoskeletal, cardiovascular, respiratory, reproductive, digestive, renal and neurological systems as they relate to the description of specific disease states taught in this course. Additionally, examples of diseases caused by pathologic disturbances to these systems will be discussed, as well as the basic principles of preventative health care, diagnostic testing and pharmacologic intervention. Significant attention will be given to research in veterinary science and the practice of evidence-based medicine. This course is intended for any student interested in veterinary medicine, animal physiology, or medical science.

0101	Sarah Balcom	Seats (Total: 20)
	MWF 11:00am - 11:50am	ANS 0412

ANSC314 Comparative Animal Nutrition

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; and (CHEM231 or CHEM104).

The fundamental role and implications of dietary preference, gastrointestinal physiology and nutrients in animal nutrition. Biochemical roles of nutrients in metabolism, digestion, absorption and assimilation as it relates to various life processes.

Offered fall only.

0101	Richard Kohn	Seats (Total: 88)
	MWF 9:00am - 9:50am	ANS 0408

ANSC330 Equine Science

Credits: 3	Grading Method: Regular

Prerequisite: ANSC232; or permission of instructor. Recommended: ANSC212 and ANSC211. Credit only granted for: ANSC230 or ANSC330. Formerly: ANSC230.

Scientific principles of horse behavior, anatomy, physiology, locomotion, nutrition, reproduction, growth, health and disease as applied to horses are emphasized.

Offered fall only. Students must pay a $50.00 laboratory materials fee.

0101	Amy Burk	Seats (Total: 28)	
	MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	ANS 0402 ANS 1144	Lab

ANSC359 **Internship Experience in Animal and Avian Sciences**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Experiential learning is a key component in an animal science education. Through the internship program, you will have the opportunity to develop your expertise in a specific species and discipline within the animal science curriculum. You will arrange an on- or off-campus internship experience related to animal science. You will spend a specified number of hours at the internship site each week and attend biweekly classroom sessions where we will discuss how the study of animal science fits into your specific internship experience as well as understand how to achieve each of the course learning outcomes.

Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, or ANSC262. Restriction: Must be in a major within the AGNR-Animal & Avian Sciences department; and permission of instructor.

0101	Monica VanKlompenberg	Seats (Total: 20)	
	Tu 3:30pm - 5:30pm	ANS 0402	

ANSC379 **Animal Science Undergraduate Teaching Assistant Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Seminar course for undergraduate teaching assistants within ANSC.

0101	Sarah Balcom	Seats (Total: 15)	
	W 12:00pm - 12:50pm Contact instructor or department for details.	ANS 1408	

ANSC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0701	Chad Stahl	Seats (Total: 5)	
	Contact instructor or department for details.		

1901	William Stricklin Contact instructor or department for details.	Seats (Total: 5)
5201	Amy Burk Contact instructor or department for details.	Seats (Total: 5)

ANSC389 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

ANSC399 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC417 **Regulatory Issues in Animal Care and Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, or ANSC262.

A study of regulatory issues affecting animal care and management in the livestock industry. Guest speakers and classroom discussions will focus on key topics including animal welfare, feed and drug regulations, animal identification, CAFO management, processing and marketing of animal products.

0101	Monica VanKlompenberg TuTh 12:30pm - 1:45pm	Seats (Total: 20) ANS 0402

ANSC437 **Animal Biotechnology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC327; or students who have taken courses with comparable content may contact the department.

Key concepts and current issues in animal biotechnology are covered. Current techniques and applications systems as well as social, ethical, and regulatory issues associated with biotechnology will be discussed.

0101	Carol Keefer	Seats (Total: 25)
	MWF 10:00am - 10:50am	ANS 0412

ANSC446 **Physiology of Mammalian Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC212 or BSCI440.

Anatomy and physiology of reproductive processes in domesticated and wild mammals.

0101	Bhanu Telugu	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	ANS 0408

ANSC447 **Physiology of Mammalian Reproduction Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC446.

Gross and micro-anatomy, artificial insemination, estrous cycle synchronization and invitro-fertilization procedures and analytical techniques useful in animal management and reproduction.

Students must pay a $50.00 laboratory materials fee.

0101	Bhanu Telugu	Seats (Total: 30)	
	F 12:00pm - 1:50pm	ANS 0108	Lab

ANSC450 **Animal Breeding Plans**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Restriction: Junior standing or higher.

Design of animal breeding programs for the genetic improvement of livestock and companion animal species. Principles of population and quantitative genetics. Genetic evaluations of animals, selection strategies and crossbreeding systems. Incorporation of statistics and biotechnology into animal breeding plans.

0101	Monica VanKlompenberg MWF 9:00am - 9:50am	Seats (Total: 35) ANS 0412	

ANSC455 **Applied Animal Behavior**

Credits: 3 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103; or BSCI106; or (BSCI160 and BSCI161).

Principles of animal behavior applied to production systems in animal agriculture.

Offered fall only.

0101	R Apter MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 55) ANS 0408 ANS 0408	 Lab

ANSC489 **Current Topics in Animal Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

Contact department for information to register for this course.

ANSC489A **Current Topics in Animal Science; Animal Health Policy and Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

Recommended: ANSC225 and ANSC340. Restriction: Must be in a major within the AGNR-Animal & Avian Sciences department; or permission of AGNR-VA-MD Regional Col Veterinary Med. An introduction to animal health poicy with emphasis on understanding how science and politics interact and influence animal health policy and how veterinarians and animal scienctists can effectively communicate science to non-scientists such as legislators and policymakers.

0101	Nathaniel Tablante TuTh 8:00am - 9:15am	Seats (Total: 10) ANS 0412

ANSC660 **Poultry Literature**

Credits: 1-4 Grading Method: Regular, Audit

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

Contact department for information to register for this course.

ANSC698C **Seminar; Recent Advances in Animal and Avian Sciences**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 25)	
	Tu 3:30pm - 5:30pm	ANS 0408	

ANSC698D **Seminar; Developing Presentation Skills**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 12)	
	Tu 3:30pm - 5:30pm	ANS 0408	
	Th 3:30pm - 4:30pm	ANS 0402	Discussion

ANSC699 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ANTH Anthropology Fall 2017

ANTH210 **Introduction to Medical Anthropology and Global Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to the central concepts in medical anthropology and the anthropology of global health. This course is a survey of anthropological notions of health, disease, and the body in cross-cultural and global contexts, including classic and contemporary texts. It will provide an examination of systems of knowledge and practice with regard to illness, healing, and global health inequities.

0101	Andrea Lopez TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2212 WDS 0104	 Discussion
0102	Andrea Lopez TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2212 WDS 0104	 Discussion
0103	Andrea Lopez TuTh 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2212 WDS 0104	 Discussion

ANTH221 **Introduction to Forensic Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Credit only granted for: ANTH298A or ANTH221. Formerly: ANTH298A.

Provides a brief history of forensic sciences, an introduction to some of the techniques used, and a demonstration of some of the applications of forensic sciences. A survey course designed to give the student some exposure to the kinds of scientific knowledge and techniques applied to the medico-legal investigation of death and other crimes.

FC01	Erin Guthrie TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 24) WDS 0124C	

ANTH222 **Introduction to Ecological and Evolutionary Anthropology**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: LL	General Education: DSNL, DVUP

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

Students must pay a $40.00 materials lab fee.

0101	Michelle Raxter TuTh 11:00am - 12:15pm M 8:00am - 10:00am	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
0102	Michelle Raxter TuTh 11:00am - 12:15pm M 11:00am - 1:00pm	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
0103	Michelle Raxter TuTh 11:00am - 12:15pm M 2:00pm - 4:00pm	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
0104	Michelle Raxter TuTh 11:00am - 12:15pm W 8:00am - 10:00am	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
0105	Michelle Raxter TuTh 11:00am - 12:15pm W 11:00am - 1:00pm	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
0106	Michelle Raxter TuTh 11:00am - 12:15pm W 2:00pm - 4:00pm	Seats (Total: 20) ATL 2324 WDS 0124C	Lab
FC01	Tanya Icaza TuTh 4:30pm - 5:45pm F 10:00am - 12:30pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 18) HBK 0103 WDS 0124C	Lab

FC02	Tanya Icaza TuTh 4:30pm - 5:45pm F 12:30pm - 3:00pm	Seats (Total: 18) HBK 0103 WDS 0124C	 Lab
	Restricted to students in Freshmen Connenction.		

ANTH240 **Introduction to Archaeology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

0101	George Hambrecht TuTh 11:00am - 12:15pm	Seats (Total: 75) TWS 0310	
0201	Mark Leone MWF 11:00am - 11:50am	Seats (Total: 40) WDS 1114	
FC01	Tracy Jenkins MW 4:30pm - 5:45pm	Seats (Total: 34) HBK 0115	
	Restricted to students in Freshmen Connection.		

ANTH260 **Introduction to Sociocultural Anthropology and Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

0101	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 KEY 0117	 Discussion
0102	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 KEY 0117	 Discussion
0103	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 TYD 1108	 Discussion

0104	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) MMH 1400 WDS 1127	Discussion
0105	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) MMH 1400 WDS 1131	Discussion
0106	Thurka Sangaramoorthy TuTh 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 WDS 1131	Discussion
FC01	Irene Calis TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 32) TYD 2106	

ANTH263 **Sexuality and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

FC01	Jeanne Hanna TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) TYD 1118

ANTH264 **Immigration Policy, Immigrant Lives**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

An examination of the phenomenon of international migration, or immigration. Students develop awareness of how immigration has been framed in the general public and examined by social science disciplines, most prominently anthropology. Examination of case studies of different immigrant groups in distinct geographic contexts will illuminate the varied incorporation experiences of immigrants into U.S. society.

Also offered as IMMR219C. Credit granted for ANTH264 or IMMR219C.

0101	Christina Getrich TuTh 9:30am - 10:20am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1215 WDS 1127	Discussion
0102	Christina Getrich TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 20) ESJ 1215 WDS 1127	Discussion
0103	Christina Getrich TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 20) ESJ 1215 WDS 1127	Discussion

ANTH265 **Anthropology of Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

FCH1	Gwynne Jenkins Tu 7:30pm - 8:45pm Class time/details on ELMs	Seats (Total: 27) KEY 0126 ONLINE	Discussion
	Restricted to students in Freshman Connection. Class time/details on ELMS Online Discussion		

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

FC01	Stanley Herman MW 6:00pm - 7:15pm	Seats (Total: 39) KEY 0116	
	Restricted to students in Freshman Connection.		

ANTH305 **Archaeological Methods and Practice**

Credits: 3 Grading Method: Regular General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ARTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	George Hambrecht TuTh 2:00pm - 3:15pm	Seats (Total: 30) KEY 0116

ANTH322 **Method and Theory in Ecological Anthropology**

Credits: 3 Grading Method: Regular

Prerequisite: ANTH220 or ANTH222. Restriction: Must be in a major within the BSOS-Anthropology department. Credit only granted for: ANTH320, ANTH322, ANTH425, or ANTH625.

A theoretical consideration of ecological anthropology, focusing on issues related to cooperation, the management of common property, resilience, and sustainability. Explores the methods of sociocultural anthropology, including ethnology, evolutionary game theory and agent-based modeling; and natural-science approaches including behavioral and systems ecology.

0101	Stanford Zent TuTh 12:30pm - 1:45pm	Seats (Total: 35) PHY 1219

ANTH358A **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Archaeology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358B **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Bio-Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358C **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Cultural Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH360 **Method and Theory in Sociocultural Anthropology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH260. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theoretical approaches and research methods in sociocultural anthropology. Emphasis on current debates, new directions, and their historical antecedents.

0101	Kathryn Lafrenz Samuels	Seats (Total: 35)	
	MW 12:00pm - 12:50pm	WDS 1114	
	F 12:00pm - 12:50pm	WDS 1114	Discussion

ANTH380 **Culture and Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary discourse analysis and pragmatics applied to ethnographic research problems with particular attention to roots in recent linguistic anthropological work in ethnographic semantics and ethnography of speaking.

SG91	Jacqueline Messing	Seats (Total: 39)
	Th 9:30am - 12:00pm	Location: TBA
	Open only to Shady Grove Communication students and Anthropology majors.	

ANTH386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Contact department for information to register for this course.

ANTH398A **Independent Study; Research Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398C **Independent Study; The Mediterranean World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398E **Independent Study; Bodies and Burials**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398G **Independent Study; Ethnicity, Race and Nationality in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398H **Independent Study; Social Anthropology of Britain (Honors)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398I **Independent Study; Great Kingdoms of Ancient Near East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398K **Independent Study; Archaeology of Roman Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398L **Independent Study; Social Anthropology of Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398N **Independent Study; Career Development for Anthropology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

0101	Erik Hanson	Seats (Total: 15)
	W 1:00pm - 1:50pm	WDS 1131

ANTH411 **Anthropology of Im/migration and Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: ANTH611. Credit only granted for: ANTH411 or ANTH611.

The United Nations estimates that some 230 million people around the world are migrants who live outside their country of birth. This course focuses on these migrant populations, considering the implications of movement across borders and settlement in new societies on their health and well-being. We will investigate the social, political, and economic structures that shape disease and illness and produce differential access to health care for migrants. Within that context, we will explore the health effects of migration itself and particular health conditions from which migrants suffer. We will also examine how migrants interface with differently configured health care systems as well as strategies they and their advocates use to promote health and well-being.

0101	Christina Getrich	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	WDS 1114

ANTH412 **Hypermarginality and Urban Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH412 or ANTH612.

Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.

0101	Andrea Lopez	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	KEY 0125

ANTH414 **Women's Health: Ethnographic Approaches to Reproduction and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH414 or ANTH624.

Ethnographic and cross-cultural approaches to women's health domestically and globally, with particular attention to the ways in which morality, politics, local meanings, and the state influence women's reproductive health outcomes. Gendered, ethnic, and class dimensions that underlie patterning of disease and illness will be explored, with special attention to the long-term health effects of racism, poverty, structural violence, and sexism.

0101	Ali Heller	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ASY 3207

ANTH433 **Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH433 or ANTH633.

Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

Also offered as AASP498T, AMST428D, ARCH428L, ARCH628L, ANTH633, and HIST428L. Credit granted for ANTH433, ANTH633, ARCH428L, ARCH628L, AASP498T, or HIST428L.

0101	Mark Leone	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	WDS 1130

ANTH447 **Material Culture Studies in Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ANTH240. Credit only granted for: ANTH447, ANTH448C, ANTH647, or ANTH689C. Formerly: ANTH448C.

An in-depth introduction to the world of material culture studies with focus on the methods and theories in historical archaeology. Students will look at archaeological data as historical documents, commodities and as symbols expressing ideas.

0101	Stephen Brighton	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH452 **Anthropology and Climate Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH220, ANTH222, ANTH240, or ANTH260. Credit only granted for: ANTH452 or ANTH652.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	Jana Kopelentova Rehak	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	HBK 1108

ANTH462 **Amazon Through Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH468D or ANTH462. Formerly: ANTH468D.

An interdisciplinary course that utilizes film to consider the Amazon basin, its history, peoples, and landscapes through cinematic representations. The course places the films in the context of film history and critical theory. The course takes into consideration the Brazilian, North American, Mexican, European and Argentine creators of the films and their visions of Amazonia, as well as the audiences and markets to which the films are intended.

0101	Janet Chernela	Seats (Total: 31)
	M 2:00pm - 4:45pm	SQH 1107

ANTH464 **Anthropology of Cultural Heritage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ANTH260. Also offered as: ANTH664. Credit only granted for: ANTH469T, ANTH689T, ANTH464, ANTH664. Formerly: ANTH469T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

0101	Kathryn Lafrenz Samuels	Seats (Total: 20)
	M 2:00pm - 4:45pm	TYD 0111

ANTH468W **Special Topics in Cultural Anthropology; Performativity of Law and Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Law is theatre, sport, and business. True stories are creatively told to select audiences and stakes are high. This class will explore the performances and performative power of courtroom trials and testimony, as well as offstage legal culture. We will examine notions of truth, evidence, reason, and justice, and will analyze examples from both the everyday and the sensational.

0101	Laurie Frederik	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PAC 1809

ANTH476 **Senior Research**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.

Contact department for information to register for this course.

ANTH477 **Senior Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.

Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.

Contact department for information to register for this course.

ANTH485 **Honors Research Preparation**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program.

Honors Research Preparation is an independent study course during which the Honors candidate will work with their Honors Thesis Advisor to establish not only the structure of the thesis and timeline, but also the formation of Thesis Review Committee.

Contact department for information to register for this course.

ANTH486 **Honors Research**

(Perm req)

Credits: 3-4 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.

Contact department for information to register for this course.

ANTH487 **Honors Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular

Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.

Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.

Contact department for information to register for this course.

ANTH601 **Applied Anthropology**

Credits: 3 Grading Method: Regular

An overview of the history and current practices of applied anthropology. This includes relationships between applied anthropology and other major subfields of the profession; the interdisciplinary and public context of applied anthropology; and problems of significance, utility, and ethics associated with applied anthropology.

Offered fall only. For ANTH majors only.

0101	Michael Paolisso	Seats (Total: 20)
	Tu 5:00pm - 7:40pm	WDS 1130

ANTH606 **Qualitative Methods in Applied Anthropology**

Credits: 3 Grading Method: Regular, Audit

An introduction to the use of ethnography and qualitative methods in applied and policy contexts. Qualitative methods discussed include informal and systematic approaches. Students undertake fieldwork in local settings to practice the qualitative methods and to develop analysis and report writing skills.

Offered fall only. For Anth majors only.

0101	Thurka Sangaramoorthy	Seats (Total: 20)
	W 12:00pm - 2:45pm	BPS 1228

ANTH611 **Anthropology of Im/migration and Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH411 or ANTH611.

The United Nations estimates that some 230 million people around the world are migrants who live outside their country of birth. This course focuses on these migrant populations, considering the implications of movement across borders and settlement in new societies on their health and well-being. We will investigate the social, political, and economic structures that shape disease and illness and produce differential access to health care for migrants. Within that context, we will explore the health effects of migration itself and particular health conditions from which migrants suffer. We will also examine how migrants interface with differently configured health care systems as well as strategies they and their advocates use to promote health and well-being.

0101	Christina Getrich	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	WDS 1114

ANTH612 **Hypermarginality and Urban Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: ANTH412. Credit only granted for: ANTH412 or ANTH612.

Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.

0101	Andrea Lopez	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	KEY 0125

ANTH624 **Women's Health: Ethnographic Approaches to Reproduction and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH414 or ANTH624.

Ethnographic and cross-cultural approaches to women's health domestically and globally, with particular attention to the ways in which morality, politics, local meanings, and the state influence women's reproductive health outcomes. Gendered, ethnic, and class dimensions that underlie patterning of disease and illness will be explored, with special attention to the long-term health effects of racism, poverty, structural violence, and sexism.

0101	Ali Heller	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ASY 3207

ANTH633 **Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH433 or ANTH633.

Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

Also offered as AASP498T, AMST428D, ARCH428L, ARCH628L, and ANTH433. Credit only granted for ANTH433, ANTH633, ARCH428L, ARCH628L, or AASP498T.

0101	Mark Leone	Seats (Total: 10)
	Tu 2:00pm - 4:45pm	WDS 1130

ANTH647 **Advanced Material Culture Studies in Archaeology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH447, ANTH448C, ANTH647, or ANTH689C. Formerly: ANTH689C.

An in-depth introduction to the world of material culture studies with focus on the methods and theories in historical archaeology. Students will look at archaeological data as historical documents, commodities and as symbols expressing ideas.

0101	Stephen Brighton	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH652 **Anthropology and Climate Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: ANTH452. Credit only granted for: ANTH452 or ANTH652.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	Jana Kopelentova Rehak Tu 2:00pm - 4:45pm	Seats (Total: 10) HBK 1108

ANTH664 **Anthropology of Cultural Heritage**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH469T, ANTH689T, ANTH464 or ANTH664. Formerly: ANTH689T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

0101	Kathryn Lafrenz Samuels M 2:00pm - 4:45pm	Seats (Total: 10) TYD 0111

ANTH688A **Current Developments in Anthropology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Contact department for information to register for this course.

ANTH689A **Special Problems in Anthropology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANTH701 **Anthropology Internship Preparation**

Credits: 3 Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

Contact department for information to register for this course.

ANTH712 **Anthropology Internship Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH760 **Development of Social/Cultural Theory**

Credits: 3 Grading Method: Regular, Audit

A broad perspective of the history of social cultural theory in anthropology and the critical skills needed for understanding the subdiscipline is provided. An overview of the history of theorizing about society and culture will help outline the past, present, and future of anthropology and its relations with other scientific and humanistic disciplines.

For Anth majors only.

0101	Janet Chernela	Seats (Total: 20)
	M 6:00pm - 8:45pm	WDS 1130

ANTH788 **Internship Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: HIST810, AMST856. Credit only granted for: ANTH856, AMST856, or HIST810.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Elsa Barkley Brown	Seats (Total: 15)
	W 4:00pm - 6:40pm	TWS 1313

ANTH857 **Museum Scholarship Practicum**

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: HIST811, AMST857. Credit only granted for: ANTH857, AMST857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander	Seats (Total: 3)
	Contact instructor or department for details.	
0401	Mary Sies	Seats (Total: 3)
	Contact instructor or department for details.	

ANTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC Atmospheric and Oceanic Science Fall 2017

AOSC123 **Causes and Implications of Global Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Also offered as: GEOL123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123. Formerly: METO123.

Responsible policy and decision making on issues related to the global environment requires understanding of the basic scientific issues, relationships between the geophysical and biological sciences, the impacts on regional and global endeavors, and the political manner in which humans respond. This course embodies an integrated introduction to the broad scientific and social aspects of the global change problem.

0101	Michael Gerst, Melissa Kenney MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 32) ATL 2416 ATL 2416	 Discussion

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AOSC200 **Weather and Climate**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201. Formerly: METO200.

Broad survey of the state of knowledge and problems of atmospheric science. Origin and structure of the atmosphere, meteorological observations, weather maps, forecasting, satellites, energetics, wind, general circulation, storms, severe weather, climate change, air pollution.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Timothy Canty TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) ATL 2324 ATL 2416	 Discussion
0102	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 BPS 1232	 Discussion
0103	Timothy Canty TuTh 12:30pm - 1:45pm W 3:00pm - 3:50pm	Seats (Total: 30) ATL 2324 BPS 1232	 Discussion
0104	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 EGR 2154	 Discussion

0201	Timothy Canty TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 CHM 0122	Discussion
0202	Timothy Canty TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 30) ATL 2324 EGR 2116	Discussion
0203	Timothy Canty TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 30) ATL 2324 ATL 2416	Discussion
0204	Timothy Canty TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ATL 2324 EGR 2154	Discussion
0301	Rachel Pinker TuTh 11:00am - 12:15pm	Seats (Total: 25) ATL 2316	

AOSC201 **Weather and Climate Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL

Corequisite: AOSC200. Formerly: METO201.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, use of the Internet, forecasting practice and climate modeling.

Students must pay a $50.00 laboratory materials fee.

0101	William Leslie Tu 3:30pm - 5:30pm	Seats (Total: 26) ATL 3426	Lab
0102	Jebidiah Jeffery W 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0103	Casey Joseph F 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0104	Ryan Bolt W 4:00pm - 6:00pm	Seats (Total: 26) ATL 3426	Lab

0105	Katherine Lenninger M 2:00pm - 4:00pm	Seats (Total: 26) ATL 3426	Lab
0106	Katherine Lenninger Tu 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0107	Alexander Kaltenbaugh M 10:00am - 12:00pm	Seats (Total: 26) ATL 3426	Lab
0108	William Leslie F 2:00pm - 4:00pm	Seats (Total: 26) ATL 3426	Lab
0109	Rachel Pinker Tu 1:00pm - 3:00pm	Seats (Total: 25) ATL 3426	Lab

AOSC375 **Introduction to the Blue Ocean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: GEOL375. Credit only granted for: GEOL375 or METO375.

Oceans are an important component of the Earth System and this course builds towards Earth System Science education. Oceanography is an intrinsically interdisciplinary subject with strong connections to astronomy (tidal forces), biology (ecosystems), geography (world climate), geology (sea floor tectonics), and physics (waves). We begin with the history of ocean exploration and origin of Earth and life and learn about properties of seawater, air-sea interactions, atmospheric and oceanic circulation, El Nino-Southern Oscillation, waves, tides, and tsunamis.

0101	Raghu Murtugudde TuTh 11:00am - 12:15pm	Seats (Total: 23) ATL 1109

AOSC400 **Physical Meteorology of the Atmosphere**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141); or permission of CMNS-Atmospheric & Oceanic Science department. Formerly: METO400.

The application of basic classical physics, chemistry and mathematics t the study of the atmosphere. Composition of the atmosphere; energy sources and sinks (radiation in the atmosphere; radiative balance and radiative forcing of atmospheric processes); atmospheric thermodynamics; clouds and precipitation physics; atmospheric electricity and optics; mesoscale processes (e.g., orographic mesoscale phenomena and instabilities); air mass boundaries; severe weather, tropical cyclones; storms; global circulation.

0101	Isaac Moradi TuTh 11:00am - 12:15pm	Seats (Total: 32) ATL 2416

AOSC420 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and PHYS141. Recommended: AOSC200. Also offered as: AOSC670, GEOL670. Credit only granted for: AOSC420, AOSC670, or GEOL670.

Ocean observations. Water masses, sources of deep, intermediate, and surface water. Mass, heat, and salt transport, and the meridional overturning circulation. Geochemical tracers and cycles, including carbon. Western boundary currents, mixed layers, and processes maintaining the thermocline. Coastal and estuarine processes. Surface waves and tides. the ocean's role in climate.

0101	James Carton MW 3:15pm - 4:30pm	Seats (Total: 12) ATL 2416

AOSC431 **Atmospheric Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141). Recommended: MATH246. Credit only granted for: AOSC431 or METO431. Formerly: METO431.

Classical thermodynamics applied to both the dry and the moist atmosphere. Composition; phase changes of water; stability concepts; Properties of aerosols and clouds, cloud nucleation and precipitation processes, atmospheric electricity, cloud and precipitation chemistry.

0101	Ning Zeng TuTh 9:30am - 10:45am	Seats (Total: 25) ATL 2416
AM01	Ning Zeng TuTh 9:30am - 10:45am	Seats (Total: 1) ATL 2416

AOSC470 **Synoptic Meteorology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432. Credit only granted for: AOSC470, AOSC600, or METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitiude and mesoscale weather systems. Tropical meteorology. Weather forecasting using numerical and statistical models. Prediction of weather phenomena on the global, syoptic, meso, and local scales. Analysis of surface and upper air data; Norwegian cyclone model; introduction to weather forecasting.

0101	Daryl Kleist	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	ATL 2416

AOSC493 Senior Research Project I

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Restriction: Must be in Atmospheric and Oceanic Science program. Or must not be in Atmospheric and Oceanic Science program; and permission of instructor.

Technical writing and oral presentation skills. Planning, writing, and presenting a plan for research in the geosciences.

0101	Timothy Canty	Seats (Total: 10)
	M 2:00pm - 3:00pm	Location: TBA
	F 2:00pm - 3:30pm	Location: TBA

AOSC494 Atmospheric and Oceanic Science Seminar

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432.

Exposure to a wide range of contemporary topics in atmospheric, oceanic and climate sciences, to foster research interests and promote critical thinking through the weekly AOSC departmental seminar series.

0101	Raghu Murtugudde, Ning Zeng	Seats (Total: 20)
	Th 3:30pm - 5:00pm	ATL 2400

AOSC498 Senior Research Project II

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The project will be based on the research or development plan created i AOSC493. It may be completed with the approval of a faculty advisor in conjunction with an internship. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

AOSC499 **Special Problems in Atmospheric Science**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

Contact department for information to register for this course.

AOSC600 **Synoptic Meteorology I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: AOSC610. Credit only granted for: AOSC470 or AOSC600. Formerly: METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitude and mesoscale weather systems. Tropical meteorology.

0101	Daryl Kleist TuTh 5:00pm - 6:15pm	Seats (Total: 10) ATL 2416
AM01	Daryl Kleist TuTh 5:00pm - 6:15pm	Seats (Total: 1) ATL 2416

AOSC610 **Dynamics of the Atmosphere and Ocean I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH462; or students who have taken courses with comparable content may contact the department. Formerly: METO610.

Equations of motion and their approximation, scale analysis for the atmosphere and the ocean. Conservation properties. Fluid motion in the atmosphere and oceans. Circulation and vorticity, geostrophic motion and the gradient wind balance. Turbulence and Ekman Layers.

0101	Sumant Nigam MWF 9:00am - 9:50am	Seats (Total: 30) ATL 2428

AM01	Sumant Nigam MWF 9:00am - 9:50am	Seats (Total: 1) ATL 2428

AOSC614 **Atmospheric Modeling, Data Assimilation and Predictability**

Credits: 3 Grading Method: Regular

Prerequisite: AOSC610; or permission of instructor.

Solid foundation for atmospheric and oceanic modeling and numerical weather prediction: numerical methods for partial differential equations, an introduction to physical parameterizations, modern data assimilation, and predictability.

0101	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 20) ATL 3400
AM01	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 1) ATL 3400

AOSC620 **Physics and Chemistry of the Atmosphere I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department. Formerly: METO620.

Air parcel thermodynamics and stability; constituent thermodynamics and chemical kinetics. Cloud and aerosol physics and precipitation processes.

0101	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 25) ATL 2416
AM01	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 1) ATL 2416

AOSC652 **Analysis Methods in Atmospheric and Oceanic Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS141 and MATH241; or students who have taken courses with comparable content may contact the department. Recommended: AMSC460, CMSC660, AMSC660, or CMSC460.

A variety of the analysis methods used by atmospheric and oceanic scientists will be applied to observational data sets such as Vostok ice core record, temperature trends, and satellite measurements of ozone,sea ice, etc. in a hands-on, computer laboratory setting. Students will be exposed to Fortran and Python as well as modern file formats such as HDF and netCDF. No prior programming experience required.

0101	Jeffrey Henrikson MWF 12:45pm - 1:50pm	Seats (Total: 24) ATL 3426
AM01	Jeffrey Henrikson MWF 12:45pm - 1:50pm	Seats (Total: 1) ATL 3426

AOSC658E **Special Topics in Meteorology; Data Assimulation**

Credits: 3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

Contact department for information to register for this course.

AOSC658L **Special Topics in Meteorology; Ice and Climate**

Credits: 3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

0101	Derrick Lampkin TuTh 12:30pm - 1:45pm	Seats (Total: 27) ITV 1100

AOSC670 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Also offered as: AOSC420, GEOL670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, and salt transport, geochemical tracers. Western boundary currents, maintenance of the thermocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	James Carton MW 3:15pm - 4:30pm	Seats (Total: 11) ATL 2416
AM01	James Carton MW 3:15pm - 4:30pm	Seats (Total: 1) ATL 2416

AOSC680 **Introduction to Earth System Science**

Credits: 3 Grading Method: Regular, Audit

An introduction to the study of the earth as a system: atmosphere, oceans, land, cryosphere, solid earth, and humans. Cycling of materials and energy in the earth system: the energy cycle, the hydrologic cycle, the carbon cycle, the nitrogen cycle. Climate processes and variability: land-atmosphere, ocean-atmosphere, biosphere-climate, and human interactions, short- and long-term variability in climate.

0101	Raghu Murtugudde TuTh 12:30pm - 1:45pm	Seats (Total: 20) ATL 1114
AM01	Raghu Murtugudde TuTh 12:30pm - 1:45pm	Seats (Total: 1) ATL 1114

AOSC798 **Directed Graduate Research**

Credits: 1-3 Grading Method: Sat-Fail

Contact department for information to register for this course.

AOSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Fall 2017

ARAB104 **Elementary Modern Standard Arabic I-II**

Credits: 6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in th standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Dina El-Hefnawy MWF 10:00am - 11:50am	Seats (Total: 15) JMZ 1103
0201	Zein El-Amine, Ahmed Hanafy MWF 2:00pm - 3:50pm	Seats (Total: 15) JMZ 3120
0301	Peter Glanville, Ahmed Hanafy MWF 12:00pm - 1:50pm	Seats (Total: 15) JMZ 3120
0401	Dina El-Hefnawy MWF 1:00pm - 2:50pm	Seats (Total: 15) HJP 2118

ARAB204 Intermediate Modern Standard Arabic I

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ARAB105; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

0101	Lutf Alkebsi MWF 12:00pm - 1:50pm	Seats (Total: 15) JMZ 0205
0201	Zein El-Amine MWF 10:00am - 11:50am	Seats (Total: 15) HJP 3142

ARAB206 Egyptian Colloquial Arabic I

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic.

Develops communicative skills and cultural knowledge in Egyptian Arabic. Focuses on various social interactions, work and school situations, as well as specifics of pronunciation and grammar of the Egyptian dialect. Designed for students who have completed two years of the regular Arabic sequence classes (104-105 and 204-205) or equivalent.

Prerequisite: ARAB205.

0101	Sayed Elsisi	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	JMZ 3118

ARAB207 **Egyptian Colloquial Arabic II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB206; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Arabic.

Further develops communicative skills and cultural knowledge in Egyptian Arabic, extending range of contexts and types of social interaction. Focuses on various aspects of Egyptian popular culture.

Contact department for information to register for this course.

ARAB253 **The Arabian Nights and the Art of Storytelling**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU

Credit only granted for: ARAB 298B or ARAB253. Formerly: ARAB298B.

One Thousand and One Nights (Arabic Kitab alf laylah wa laylah; English The Arabian Nights) is a collection of stories and folk tales compiled in Arabic during the Islamic Golden Age, and explores how this text has shaped Western perceptions of the Arabic-Islamic world as well as its impact on the literary production of similar works in Europe and the Middle East. Taught in English.

0101	Sayed Elsisi	Seats (Total: 27)
	TuTh 3:30pm - 4:45pm	JMZ 2117

ARAB304 **Advanced Modern Standard Arabic I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic. Formerly: ARAB301.

Advanced grammar, reading, writing, speaking in Arabic; study of contemporary Arabic society, politics, and culture.

0101	Zein El-Amine TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 15) JMZ 2120 JMZ 2120	 Lab
0201	Lutf Alkebsi MW 3:00pm - 4:15pm F 3:00pm - 3:50pm	Seats (Total: 15) JMZ 2120 JMZ 2120	 Lab

ARAB386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Pre-professional experience in research, analysis and writing in a work setting. Project proposal approved by faculty and internship sponsor. Junior standing.

Contact department for information to register for this course.

ARAB499E **Special Topics in Arabic Studies; New Arab Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB 305. Taught in Arabic. This course introduces the students to the language of the Arabic news. This is done by using the text book by Elgibali and Korica, Media Arabic to be the guide for the themes in Media and a guide for the vocabulary. Students are reading and listening to fresh news from different Arabic media. In addition to that, they will also be reading and listening to analytical articles, editorials and excerpts from talk shows. Students have both reading and listening assignments that they will working on and responsible for at home. The course further develops the students' ability for both reading and listening comprehension that will be demonstrated through writing and speaking. It also enhances and widens the students range of vocabulary. Students are asked to write news based on the themes they are covering in the book and based on the fresh news they are reading and listening to. This is a content course that works on receptive and productive skills of the students.

0101	Lutf Alkebsi TuTh 12:30pm - 1:45pm	Seats (Total: 18) PLS 1115	

ARAB499O **Special Topics in Arabic Studies; The Syrian Conflict**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB 305. Taught in Arabic. By Permission Only. Background and coverage of the Syrian conflict from 2011 to present day. Weekly readings in English and Arabic. Weekly writing in Arabic.

0101	Zein El-Amine	Seats (Total: 15)
	TuTh 9:30am - 10:45am	JMZ 0208

ARAB499P **Special Topics in Arabic Studies; Facing West: Al-Jabarti to Bin Laden**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Pre-requisite: ARAB 305 or permission. Taught in Arabic. A survey of Arab intellectual history focusing on views of and reactions to the West. Texts in English and Arabic. Discussion in Arabic. Weekly writing in Arabic.

0101	Peter Glanville	Seats (Total: 15)
	MW 3:00pm - 4:15pm	HJP 2118

ARAB628A **Special Topics in Arabic Studies; Arabic Audiovisual Discourses**

Credits: 3 Grading Method: Regular, Audit

In-depth study of a particular aspect of Arabic Studies. Topics to be announced when course if offered. Taught in Arabic.

Contact department for information to register for this course.

ARCH Architecture Fall 2017

ARCH170 **Design Thinking and Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Examines conceptual, perceptual, behavioral, and technical aspects of the built environment, and methods of analysis, problem-solving, and design implementation.

0101	Ronit Eisenbach, Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1101	Discussion
0102	Lindsey May, Ronit Eisenbach W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1103	Discussion
0103	Lindsey May, Ronit Eisenbach W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1105	Discussion
0104	Ronit Eisenbach, Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ONLINE ARC 1111	Discussion
0105	Ronit Eisenbach, Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1101	Discussion
0106	Lindsey May, Ronit Eisenbach W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1103	Discussion
0107	Lindsey May, Ronit Eisenbach W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1105	Discussion
0108	Ronit Eisenbach, Lindsey May W 9:00am - 9:50am Class time/details on ELMs F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ONLINE ARC 1111	Discussion

FC01	Marques King	Seats (Total: 22)
	TuTh 7:30pm - 8:45pm	ARC 1105
	Restricted to students in Freshman Connection.	

ARCH171 **Design Thinking and Making in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program.

Examines iterative design processes and critical thinking skills through active learning and design thinking methodologies to solve problems and apply design as a lens of inquiry and exploration. Students will understand Design Thinking through interactive and experiential learning.

0101	Michael Ambrose	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	ARC 1103

ARCH201 **Elements and Principles of Architecture**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program.

Survey of fundamental elements and principals of architecture and architectural education. Frames study of architecture as a profession, discipline and critical practice.

0101	Brian Kelly	Seats (Total: 60)
	M 11:00am - 11:50am	Location: TBA

ARCH226 **History of World Architecture II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture

0101	Cynthia Field, Isabelle Gournay	Seats (Total: 120)
	TuTh 3:30pm - 4:45pm	ESJ 2204

ARCH270 **Design in Practice**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Case studies and hands-on design projects ranging in scale from a product to a building to give students insight into the process by which architects work both individually and collaboratively to put disciplinary knowledge and expertise into practice to shape our built environment.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more informationon the Fearless Ideas Courses.

0101	Madlen Simon	Seats (Total: 90)
	TuTh 2:00pm - 3:15pm	ARC 0204

ARCH271 **People, Planet, and Profit: Building Sustainable Places**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Also offered as: RDEV250. Credit only granted for: ARCH271 or RDEV250.

An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.

0101	Heidi Bulich	Seats (Total: 132)
	TuTh 3:30pm - 4:45pm	ESJ 1224

ARCH300 **Design Media and Representation II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH200; or permission of ARCH-Architecture Program. Restriction: Must be in a major in ARCH-Architecture Program.

Study of architectural representation in physical and digital design media. Examine visual communications and speculative visual studies through applied drawing, modeling and making to explore expanded roles of representation in design and design thinking.

0101	Matthew Geiss	Seats (Total: 20)	
	W 8:00am - 9:50am	Location: TBA	
	W 10:00am - 11:50am	Location: TBA	Discussion

0102	Matthew Geiss W 8:00am - 9:50am W 12:00pm - 1:50pm	Seats (Total: 20) Location: TBA Location: TBA	 Discussion
0103	Matthew Geiss W 8:00am - 9:50am W 10:00am - 11:50am	Seats (Total: 20) Location: TBA Location: TBA	 Discussion
0104	Matthew Geiss W 8:00am - 9:50am W 12:00pm - 1:50pm	Seats (Total: 20) Location: TBA Location: TBA	 Discussion

ARCH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.

Learning experience tied to internship of specified duration with targeted learning outcomes.

0101	Michael Brick Contact instructor or department for details.	Seats (Total: 10)

ARCH401 **Architecture Design Studio II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ARCH400. Restriction: Must be in Architecture (B.S.) program.

Continuation of ARCH 400 with introduction to building typology, urban and contextual issues, design of the vertical surface, and architectural interiors.

0101	Georgeanne Matthews MWF 2:00pm - 6:00pm	Seats (Total: 54) Location: TBA
0102	Andrew Linn MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA
0103	Tonya Ohnstad MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA

0104	Michael Abrams MWF 2:00pm - 6:00pm	Seats (Total: 15) Location: TBA

ARCH402 **Architecture Design Studio III**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in ARCH401. Restriction: Must be in Architecture (B.S.) program.

Architectural design studio with emphasis on building and facade typologies, the development of architectural promenade and sequence, public and/or civic infill buildings dependent upon the architectural promenade, and urban housing types of varying densities. The architect's obligations to urban context are explored in many dimensions including historical, typological, and physical.

Offered fall only.

0101	Brittany Williams MWF 2:00pm - 6:00pm	Seats (Total: 54) Location: TBA

ARCH404 **Graduate Architecture Design Studio I**

Credits: 6 Grading Method: Regular, Audit

Recommended: For 3 1/2 year graduate students only. Restriction: Must be in Architecture (Master's) program.

Introduction to architectural design with particular emphasis on conventions and principles of architecture , visual and verbal communication skills, formal analysis, design process, spatial composition, architectural promenade, basic program distribution, and elementary constructional and environmental responses. Offered fall only.

0101	Michael Ambrose MWF 2:00pm - 6:00pm	Seats (Total: 12) Location: TBA

ARCH406 **Graduate Architecture Design Studio III**

Credits: 6 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ARCH405. Restriction: Must be in Architecture (Master's) program.

Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.

0101	James Tilghman	Seats (Total: 16)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH419 **Independent Studies in Architectural Technology**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0101	Ming Hu	Seats (Total: 5)
	Contact instructor or department for details.	

ARCH426 **History of Architecture II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program. Credit only granted for: ARCH226 or ARCH426. Additional information: Graduate architecture history course requires additional recitation section and additional coursework tied to survey lectures.

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture. Structured to nurture critical thinking and visually literacy with regard to the worldwide legacy of architecture. The work in the course will involve the evaluation of sources and arguments in reading architectural history. Architecture will be framed relative to ways of thinking, religious beliefs, cultural heritage, and cultural values.

Offered fall only.

0101	Christian Calleri	Seats (Total: 10)
	TuTh 6:30pm - 7:45pm	SQH 1125

ARCH428C **Selected Topics in Architectural History; City Beautiful Architecture and Urbanism in USA**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

0101	Cynthia Field	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	ARC 1101

ARCH428L **Selected Topics in Architectural History; Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architectural History

Also offered as AASP498T, ARCH628L, ANTH433 and ANTH633. Credit only granted for ANTH433, ANTH633, ARCH428L, ARCH628L, or AASP498T. Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

0101	Mark Leone	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	WDS 1130

ARCH429 **Independent Studies in Architectural History**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Isabelle Gournay	Seats (Total: 5)
	Contact instructor or department for details.	

ARCH430 **Measuring Sustainability in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ARCH430 or ARCH418M. Formerly: ARCH418M.

Studies metrics of sustainability as included in rating standards, including LEED. All students will take the LEED GA test.

0101	Ralph Bennett TuTh 5:00pm - 6:15pm	Seats (Total: 50) ARC 0204

ARCH443 **Visual Communication For Architects**

Credits: 3 Grading Method: Regular

Corequisite: ARCH400. Restriction: Must be in Architecture (Master's) program; and must be in the 3.5 year M. ARCH program.

Investigation of the relationship between drawing from life and architectural drawing, the conventions of architectural drawing and the role of architectural drawing as a means to develop, communicate, and generate architectural ideas.

0101	Michael Abrams W 10:00am - 12:40pm	Seats (Total: 40) ARC 1111

ARCH449 **Independent Studies in Visual Studies in Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH459 **Independent Studies in Urban Design**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH460 **Site Analysis and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARCH-Architecture Program.

Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form.

0101	Jana VanderGoot F 9:30am - 12:00pm	Seats (Total: 60) Location: TBA

ARCH462 **Methods & Materials of Building Construction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in Construction Project Management Minor. Credit only granted for: ARCH410 or ARCH462.

Building Construction methods and materials are examined through case studies to explore the means and techniques applied to the material execution of buildings and BIM. Focus on an understanding of the organization of the design and construction process and awareness of building and zoning codes, material systems and types.

0101	Ming Hu TuTh 12:30pm - 1:45pm	Seats (Total: 150) ARC 0204

ARCH464 **Architectural Structures I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program. Credit only granted for: ARCH411 or ARCH464.

This course covers the basic principles of architectural structures, including the influence of geometric, sectional, and material properties related to flexure and shear in beam and framed systems; vector mechanics with application to analysis of trusses, catenaries, and arches; diagrammatic analysis of beams for bending moment, shear, and deflection as well as the study of structural framing systems for vertical and lateral loads.

0101	Ming Hu TuTh 9:30am - 10:45am	Seats (Total: 70) ARC 0204

ARCH466 **Environmental Systems in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program. Credit only granted for: ARCH413 or ARCH466.

Environmental systems in architecture presents the theory, quantification, and architectural design implications for heating ventilating and air conditioning, water and waste, fire protection, electricity, illumination, acoustics, and vertical transportation.

0101	Carl Bovill	Seats (Total: 70)	
	TuTh 11:00am - 12:15pm	ARC 0204	

ARCH467 **Integrated Project Delivery**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in Construction Project Management Minor.

Integrated Project Delivery is examined from design to implementation through an exploration of building construction, architectural design and construction management perspectives.

0101	Michael Patric	Seats (Total: 10)	
	TuTh 3:30pm - 4:45pm	ARC 1111	

ARCH470 **Computer Applications in Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Introduction to computer utilization, with emphasis on architectural applications.

0101	Andrew Lindberg	Seats (Total: 18)	
	Tu 7:00pm - 9:30pm	ARC 1115	
	Th 7:00pm - 8:15pm	ARC 1115	Lab

ARCH478J **Selected Topics in Architecture; Adaptation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

0101	Michele Lamprakos TuTh 9:30am - 10:45am	Seats (Total: 15) ARC 1111

ARCH478T **Selected Topics in Architecture; Ecological Design Thinking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Architecture

0101	Julie Gabrielli M 10:00am - 12:40pm	Seats (Total: 15) ARC 1111

ARCH479 **Independent Studies in Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH489 **Independent Studies in Architectural Preservation**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH600 **Integrated Design Studio V**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Corequisite: ARCH611. Restriction: Permission of ARCH-Architecture Program.

Integrated and comprehensive building and site design. Course content bridges the gap between design and technology, between practice and education, in a studio setting. Explorations include the integration of conceptual and technical aspects of architectural form and assembly, highlighting the ways in which multiple layers of a building design are developed, coordinated and resolved.

0101	Larysa Kurylas, Amy Gardner, Julie Gabrielli MWF 2:00pm - 6:00pm	Seats (Total: 32) Location: TBA

ARCH611 **Advanced Architecture Technology Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: ARCH600. Restriction: Permission of ARCH-Architecture Program.

Technology in design of buildings. Application of technological issues in building design; integration of technology in architecture; technology as a form determinant in architecture; other conceptual and philosophical issues related to the application of technology in the design, construction, and use of buildings.

Offered fall only.

0101	Ming Hu, Carl Bovill, Julie Gabrielli TuTh 5:00pm - 6:15pm	Seats (Total: 25) ARC 1103

ARCH628C **Selected Topics in Architectural History; City Beautiful Architecture and Urbanism in USA**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

0101	Cynthia Field TuTh 2:00pm - 3:15pm	Seats (Total: 15) ARC 1101

ARCH628L **Selected Topics in Architectural History; Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 1-4 Grading Method: Regular, Audit

Graduate Selected Topics in Architectural History

Also offered as AASP498T, ARCH428L, ANTH433 and ANTH633. Credit only granted for ANTH433, ANTH633, ARCH428L, ARCH628L, or AASP498T. Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically.

0101	Mark Leone	Seats (Total: 10)
	Tu 2:00pm - 4:45pm	WDS 1130

ARCH629 **Graduate Independent Studies in Architectural History**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0701	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
0801	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
0901	Instructor: TBA	Seats (Total: 2)
	Contact instructor or department for details.	

ARCH678J **Advanced Selected Topics in Architecture; Adaptation**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

0101	Michele Lamprakos	Seats (Total: 15)
	TuTh 9:30am - 10:45am	ARC 1111

ARCH678L **Advanced Selected Topics in Architecture; Destruction, Memory, Renewal**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

In this course, we'll explore motives for the destruction of historic monuments and sites - and how these objects and places are remembered and renewed, as societies struggle to recover and rebuild.

0101	Michele Lamprakos	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1127

ARCH678T **Advanced Selected Topics in Architecture; Ecological Design Thinking**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

0101	Julie Gabrielli	Seats (Total: 15)
	M 10:00am - 12:40pm	ARC 1111

ARCH678V **Advanced Selected Topics in Architecture; Sensing Architecture**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

A graduate level seminar that investigates issues of perception, the human senses, and a phenomenological approach to the built environment. Themes from the readings are centered on a sensuous approach to engaging architecture. The structure of the course consists of seminar discussions of seminal texts, research, presentations, and a series of creative projects that actively engage the themes of the seminar.

0101	Peter Noonan	Seats (Total: 15)
	Th 7:00pm - 9:40pm	ARC 1127

ARCH679 **Advanced Independent Studies in Architecture; Independent Study in Architecture**

Credits: 1-4 Grading Method: Regular, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Contact department for information to register for this course.

ARCH700 **Urban Design Studio VII**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program.

Studio problems and theories concentrating on urbanism and urban design techniques. Issues and sites range from high density urban in-fill to suburban and greenfield development in American and other contexts. Studio theories explore such topics as Contextualism, Neo-Traditional design, Transit-Oriented Development, density, sustainable development building typology, and street design.

0101	Karl Du Puy TuTh 1:00pm - 6:00pm	Seats (Total: 19) ARC 1127
0102	Garth Rockcastle Contact instructor or department for details.	Seats (Total: 10)

ARCH770 **Professional Practice of Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program.

Project management, organizational, legal, economic and ethical aspects of architecture.

0101	Andrew Pressman M 11:00am - 1:50pm	Seats (Total: 30) ARC 1101
0102	Garth Rockcastle Contact instructor or department for details.	Seats (Total: 10)

ARCH797 **Thesis Proseminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ARCH601.

Directed research and preparation of thesis program.

0101	James Tilghman TuTh 9:00am - 10:15am	Seats (Total: 20) ARC 1105

ARCH798 **Thesis in Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Complements the research of ARCH 799, with presentation of the design research to student's thesis committee.

Contact department for information to register for this course.

ARCH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Development of master's thesis.

Restricted to ARCH majors only.

Contact department for information to register for this course.

AREC Agricultural and Resource Economics Fall 2017

AREC200 **The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS, DSSP, SCIS

The Chesapeake Bay is one of the most studied and monitored ecosystems in the world. To develop effective policies to restore this system to a healthier status requires integrating what we know about the biological and physical properties of the system with our understanding of the human dimension. Issues such as achieving nutrient reduction goals, restoring healthy blue crab and oyster fisheries in the bay will be used to demonstrate how economics interacts with science to guide policies that can be effective in achieving Bay restoration goals.

0101	Sara Lombardi, Jorge Holzer Bilbao MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) ESJ 2204 PLS 1113	Discussion
0102	Sara Lombardi, Jorge Holzer Bilbao MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) ESJ 2204 EGR 3106	Discussion
0103	Jorge Holzer Bilbao, Sara Lombardi MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 35) ESJ 2204 CHM 0115	Discussion
0104	Sara Lombardi, Jorge Holzer Bilbao MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 35) ESJ 2204 CHM 0122	Discussion

AREC240 **Introduction to Economics and the Environment**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: ECON200, AREC240, or AREC250.

Costs and social impacts of pollution and human crowding in the modern environment. The economic, legal and institutional causes of these problems. Public policy approaches to solutions and the costs and benefits of alternative solutions.

0101	Dennis Guignet TuTh 5:00pm - 6:15pm W 1:00pm - 1:50pm	Seats (Total: 40) TYD 1102 TYD 2111	Discussion
0102	Dennis Guignet TuTh 5:00pm - 6:15pm W 2:00pm - 2:50pm	Seats (Total: 40) TYD 1102 CHM 0119	Discussion

AREC250 **Elements of Agricultural and Resource Economics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: ECON200, AREC240 or AREC250.

An introduction to economic principles of production, marketing, agricultural prices and incomes, farm labor, credit, agricultural policies, and government programs.

0101	Yunguang Chen TuTh 5:00pm - 6:15pm	Seats (Total: 99) SYM 0200

AREC306 **Farm Management and Sustainable Food Production**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

The organization and operation of farm businesses are explored through principles of management, financial analysis, production economics, marketing, and business planning. These farm management principles are presented in the context of a sustainable food production system.

0101	Dale Johnson MW 3:30pm - 4:45pm	Seats (Total: 40) HJP 2242

AREC326 **Intermediate Applied Microeconomics**

Credits: 3 | Grading Method: Regular

Prerequisite: ECON200, AREC250, or AREC240; and ECON201. And MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Formerly: AREC489M.

Deepens and broadens your ability to apply rigorous economic analysis skills to a broad range of problems.

0101	Neslihan Uler	Seats (Total: 45)
	TuTh 9:30am - 10:45am	SQH 1121

AREC365 **World Hunger, Population, and Food Supplies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.

0101	Kenneth Leonard	Seats (Total: 300)
	MWF 1:00pm - 1:50pm	PHY 1412

AREC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

AREC388 **Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

Contact department for information to register for this course.

AREC399 **Special Problems**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

Contact department for information to register for this course.

AREC430 **Introduction to Agricultural and Resource Law**

Credits: 3 Grading Method: Regular

Prerequisite: ECON326 or AREC326. Credit only granted for: AREC430 or AREC489K. Formerly: AREC489K.

Survey of law with emphasis on problems and applications related to agricultural and natural resource economics. The course emphasizes strategies for managing legal risk arising from ownership, management, and use of agricultural resources. Students will get practical information to utilize in personal or professional settings. Contract law, constitutional law, tort law, property law, real estate transactions, business organization, estate planning, and debtor.

0101	Paul Goeringer	Seats (Total: 75)
	MWF 9:00am - 9:50am	MCB 1207

AREC433 **Food and Agricultural Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.

Economic and political context of governmental involvement in the farm and food sector. Historical programs and current policy issues. Analysis of economic effects of agricultural programs, their benefits and costs, and comparison of policy alternatives. Analyzes the interrelationship among international development, agricultural trade and general economic and domestic agricultural policies.

0101	Howard Leathers	Seats (Total: 35)
	MWF 10:00am - 10:50am	SYM 0215

AREC453 **Natural Resources and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; and students who have taken courses with comparable content may contact the department. Also offered as: ECON453. Credit only granted for: AREC453 or ECON453.

Rational use and reuse of natural resources. Theory, methodology, and policies concerned with the allocation of natural resources among alternative uses. Optimum state of conservation, market failure, safe minimum standard, and cost-benefit analysis.

0101	Ian Page	Seats (Total: 80)
	TuTh 5:00pm - 6:15pm	ASY 2309

AREC455 **Economics of Land Use**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.

Fundamentals of location theory. Microeconomics of land use decisions, including determination of rent and hedonic pricing models. Impacts of government decisions on land use, including regulation (e.g., zoning), incentives (transferable development rights), provision of public services, and infrastructure investments. Impacts of land use on environmental quality, including issues relating to sprawl, agricultural land preservation, and other topics of special interest.

0101	David Newburn	Seats (Total: 80)
	TuTh 3:30pm - 4:45pm	SYM 0200

AREC489O **Special Topics in Agricultural and Resources Economics; Economic Perspectives of Consumption and Food Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Mary Zaki	Seats (Total: 40)
	TuTh 9:30am - 10:45am	PHY 0405

AREC489R **Special Topics in Agricultural and Resources Economics; Economics of Local Agriculture: Incubating the Next Generation of Family Farmers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:permission of the department required. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	James Gottwals	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	SYM 0209

AREC620 **Optimization in Agricultural and Resource Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed Multivariate calculus and matrix or linear algebra.

Mathematical theory of static and dynamic optimization as applied to the economics of agriculture, natural resources and the environment. Topics include necessary and sufficient conditions for constrained optimization, convexity and concavity, duality and the envelope theorem, comparative statics, fixed point theorems, optimal control theory and dynamic programming.

0101	Lars Olson	Seats (Total: 25)	
	W 5:30pm - 8:00pm	SYM 0115	
	Tu 11:00am - 12:30pm	SYM 0115	Discussion

AREC623 **Applied Econometrics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Differential and integral calculus and linear algebra; or permission of instructor.

Fundamentals of mathematical statistics for applications in econometrics. Development of the standard linear model and variations of assumptions with computer applications to applied econometric problems.

0101	Anna Alberini	Seats (Total: 27)	
	M 2:00pm - 5:00pm	EGR 3106	
	F 10:00am - 12:00pm	SYM 0115	Discussion

AREC632 **Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC832. Credit only granted for: AREC632 or AREC832.

The economics of agricultural policies. Methods for analyzing costs and benefits of price supports, import restraints, and other policies for producers, consumers, and taxpayers. Farm programs of the U.S., other industrial countries and developing countries including interventions in both domestic markets and international trade are covered along with their consequences for factor owners and related commodity markets. Theories of the farm problem and possible remedies are offered.

0101	Erik Lichtenberg	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	SYM 0209	

AREC699 **Special Problems in Agricultural and Resource Economics**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

Contact department for information to register for this course.

AREC785 **Advanced Economics of Natural Resources**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department; or (ECON603 and AREC623). Also offered as: ECON785. Credit only granted for: AREC785 or ECON785.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

0101	Jorge Holzer Bilbao, Stephen Salant	Seats (Total: 28)
	MW 12:30pm - 1:45pm	HBK 0123

AREC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

AREC832 **Advanced Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC632. Credit only granted for: AREC632 or AREC832.

Research problems in agricultural policy that include models and methods for explaining the consequences and causes of intervention in agricultural commodity markets. Quantitative, market level analysis of the implications of uncertainty, strategic behavior in international trade, second-best policies, the general equilibrium analysis of intervention, and the political economy of collective action in farm policy.

0101	Erik Lichtenberg	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SYM 0209

AREC846 **Development Microeconomics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AREC624, ECON603, and AREC623; or equivalent. Formerly: AREC869E.

Development economics with focus on issues applicable to rural development and agriculture in developing countries. Content includes both theory and empirical application of theory. Subjects covered include economics of agricultural households, credit and insurance markets, technological progress and learning and institutional economics of developing countries.

0101	Kenneth Leonard	Seats (Total: 20)
	MW 9:30am - 10:45am	TYD 1108

AREC892 **Dissertation Prospectus Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Completion of two years of the AREC Ph.D. program. Credit only granted for: AREC 869P or AREC 892. Formerly: AREC869P.

Presentations of proposed dissertation research including literature review, model development, data identification, and written prospectus development. Required of all third-year Ph.D. students.

0101	Stephen Salant	Seats (Total: 35)
	MW 11:00am - 12:15pm	SYM 2200B

AREC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

AREC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARHU Arts and Humanities Fall 2017

ARHU158G **Explorations in Arts and Humanities; Border Crossings: Immigration and the Making of the Americas**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. Human migration and immigration have been transformative forces across history and they remain so today. Focusing on the United States, the Caribbean, and Latin America, this course will examine how the arts and humanities, particularly history, theatre, and languages and literatures, have explored migration and immigration. The course will provide the tools for students to generate their own ideas and understandings of this very human activity, movement across borders.

0101	Julie Greene	Seats (Total: 25)
	MW 10:00am - 11:15am	TWS 1313

ARHU158J **Explorations in Arts and Humanities; Who Belongs? Practices of Citizenship in U.S. Democracy**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. What does it mean to be a citizen? What are the rights and obligations of citizens in a democracy? Who grants these rights and obligations? This class will explore these questions by playing a historical simulation game, reading foundational primary texts from U.S. history and contemporary politics, and observing and participating in the College Park community. We will engage with history, philosophy, literature, and public rhetoric, and students will practice multiple modes of inquiry including role-play, debate, close reading, participant observation, and public writing.

0101	Kristjana Maddux	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	TWS 1313

ARHU158K **Explorations in Arts and Humanities; Roads to J.R.R. Tolkien's Middle-earth**

Credits: 3 Grading Method: Regular General Education: DSSP

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. Ever read The Hobbit or The Lord of the Rings? (Did you feel like skipping the poems?) Many know Tolkien for his fantasy fiction set in Middle-earth, but may not know that he was a poet in his youth, or that he was a scholar and professor of medieval literature and languages. Upon closer examination, Tolkien's scholarship, his poetry, and even his artwork all make important contributions to his famous tales of hobbits and wizards. Beginning with an exploration of Middle-earth from the perspectives of literature, art, film, and language studies, we will consider how -and why - authors employ more than one mode of expression in the development of their art. Additionally, our study of "multimodality" will allow us to examine the flexibility and range of our studies and career options in the Arts and Humanities.

0101	Peter Grybauskas	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 1313

ARHU269M **Special Topics in Study Abroad II; Sicily Against the Mafia**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269P **Special Topics in Study Abroad II; Mystery Paintings**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU275 **Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DSSP

Also offered as: ENGL275. Credit only granted for: ENGL278D, ENGL275, ARHU319B or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

0101	Douglas Kern TuTh 3:30pm - 4:45pm	Seats (Total: 20) KEY 0119
0201	Heidi Scott MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0221
0202	Heidi Scott MWF 10:00am - 10:50am *This section is restricted to students in the Jimenez-Porter Writers' House.*	Seats (Total: 1) TWS 0221

ARHU286 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities; and must have earned a minimum of 12 credits; and must not have earned more than 60 credits.

Designed for students who have completed fewer than 60 credits, students who are in their first semester at the University of Maryland, and/or students who wish to complete legislative internships, research-based internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students with fewer than 60 credits and students who are in their first semester at the University of Maryland will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler Contact instructor or department for details.	Seats (Total: 5)

ARHU298L **Critical Approaches to Traditional and Non-Traditional Literary Forms across Different Cultures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Examines the different types of literature (Novel, Short Story, Flash Fiction, Comics, etc.) produced by groups or individuals under diverse circumstances (cultural, historical, political, geographical, economic, philosophical, etc.). The required texts will provide the students with an opportunity to revaluate some commonly underestimated literary forms, such as flash fiction, comics orspoken word poetry and to understand the function of these manifestations in relationship to more traditional (canonical) expressions such as the novel.

FC01	Vivianne Salgado TuTh 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 35) SQH 1121

ARHU299T **Studies in Humanities Technology; Tech Apprentice Program**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in the use of Information Technology in the Humanities.

Also offered as AGNR270. Restricted to ARHU students. Prerequisite: permission of department.

0101	Deborah Mateik F 10:00am - 12:30pm	Seats (Total: 11) ESJ 2309

ARHU309 **Writers' House Colloquium: Creative Writing in Community**

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium designed to improve students' skills in literary and communication arts through lectures, workshop and discussions on the history and craft of writing across cultures. Topics include poetry and fiction in translation, and exploration of modes of critique, elements of craft of fiction and poetry, writing for different media, genre writing, writing for performance, screen or scriptwriting and creative non-fiction.

For Writers House students only.

0101	Johnna Schmidt W 3:30pm - 5:00pm	Seats (Total: 15) QAN 1132
0201	Jessica Hammack W 7:00pm - 8:30pm	Seats (Total: 15) QAN 1132
0301	Megan Kuyatt W 5:15pm - 6:45pm	Seats (Total: 15) QAN 1132

ARHU319 **Writers' House Second Year Colloquium: Form and Theory of Creative Writing**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.

For Writers' House students only. For further details please contact Johnna Schmidt jmschmid@umd.edu.Course will meet in Queen Anne's Library

0101	Vivianne Salgado M 3:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 15) QAN 1132
0201	Laura Lauth Th 5:30pm - 8:00pm Contact instructor or department for details.	Seats (Total: 15) QAN 1132

ARHU338 **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0101	Johnna Schmidt Contact instructor or department for details.	Seats (Total: 10)
0102	Jason Farman Contact instructor or department for details.	Seats (Total: 2)
0103	Krista Caballero Contact instructor or department for details.	Seats (Total: 2)
0104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 2)

ARHU386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler	Seats (Total: 30)
	Contact instructor or department for details.	

ARHU468A **Peer Mentoring Program; Arts and Humanities' Ambassador Program**

(Perm req)

Credits: 1 Grading Method: Regular

A workshop for sophomore, junior or senior students who wish to serve a peer mentors helping first-year students to cope with the numerous issues which often arise in the transition to the university.

Restricted to current ARHU students who will serve as ambassadors for the College of Arts and Humanities.

0101	J Darius Greene	Seats (Total: 35)
	Th 4:00pm - 5:30pm	LEF 1201

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler	Seats (Total: 25)
	Contact instructor or department for details.	

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

Prerequisite: Permission of the College of Arts and Humanities.

0101	Paula Nadler	Seats (Total: 2)
	Contact instructor or department for details.	

ARMY Army Fall 2017

ARMY106 **Basic Military Science I**

Credits: 3 Grading Method: Regular

Restriction: Students must meet Officer candidate criteria to participate in field training. Repeatable to 3 credits.

Introduction to the personal challenges and competencies that are critical for effective leadership and communication. Develops knowledge and competency in physical fitness through rigorous training and experiential leadership education through leadership laboratories.

0101	Larry Rentz	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TWS 1310
0102	Larry Rentz	Seats (Total: 40)
	MWF 9:00am - 9:50am	HJP 2242
FC01	Larry Rentz	Seats (Total: 40)
	MW 6:00pm - 7:15pm	PLS 1119
	Restricted to students in Freshmen Connection.	

ARMY201 **Army Leadership Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher.

This course is an intensive examination of the Army Leadership Model in practice. The model is compared to leadership styles and techniques from government and industry and the comparative effectiveness of each. Students form their own personal leadership styles.

0101	Heather Hunkus	Seats (Total: 30)	
	W 2:00pm - 3:50pm	JMZ 0208	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWTh 6:30am - 7:30am	ARM 0131	Lab

0102	Heather Hunkus	Seats (Total: 30)	
	Th 2:00pm - 3:50pm	PHY 0405	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWTh 6:30am - 7:30am	ARM 0131	Lab

ARMY301 **Advanced Military Leadership I**

(Perm req)

Credits: 3 Grading Method: Regular

Reinforces understanding and application of Army leadership strategies, critical decision making methodologies, physical and mental fitness excellence. Includes a laboratory period in applied leadership, common military tasks and physical fitness.

0101	Sarah Beckwith	Seats (Total: 40)	
	Tu 1:00pm - 3:45pm	SQH 1105	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWF 6:30am - 7:30am	ARM 0131	Lab

ARMY401 **Advanced Military Leadership III**

(Perm req)

Credits: 3 Grading Method: Regular

Introduces contracted students to the study of Army structure, practice and processes exercised by Army Commanders and Staff in completing personnel, logistics, training and combat operations. Includes a laboratory in applied leadership skills and two field exercises.

0101	Larry Rentz	Seats (Total: 30)	
	TuTh 1:00pm - 2:30pm	HBK 0103	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWF 6:30am - 7:30am	ARM 0131	Lab

ARSC Air Science Fall 2017

ARSC059 **Air Force Officer Lab**

Credits: 1 Grading Method: Sat-Fail

Offers Air Force ROTC cadet officer's practical experience in military leadership, management, organization, and customs. May include visits to military installations, weekend laboratories, and flight orientation.

Restriction: Must be an AFROTC cadet. Repeatable to 10 credits if content differs. Formerly: ARSC159. Additional information: This course does not carry any credit toward any degree at the University.

0101	Samuel Richardson Th 7:00am - 8:50am	Seats (Total: 200) ARM 0126	 Lab

ARSC100 **The USAF Today I**

Credits: 1 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059.

Freshman course for AFROTC cadets. Introduces students to the United States Air Force and encourages participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

An elective but required for freshmen desiring the four-year AFROTC program.

0101	Amanda Revisky, Karson Peterson Tu 9:00am - 9:50am	Seats (Total: 27) ESJ 1309
0102	Amanda Revisky, Karson Peterson Th 9:00am - 9:50am	Seats (Total: 102) ATL 2324

ARSC200 **The Development of Air Power I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: AFROTC cadets must also register for ARSC059.

Sophomore course for AFROTC cadets. Study of factors contributing to th development of air power from its earliest beginnings through two world wars; the evolution of air power concepts and doctrine; introductory leadership; and assessment of communicative skills.

An elective, but required for sophomores in the four-year AFROTC program. Military cadets must also enroll in ARSC 159.

0101	Samuel Richardson Th 10:00am - 10:50am	Seats (Total: 55) PHY 1204
0103	Samuel Richardson Tu 11:00am - 11:50am	Seats (Total: 27) ARM 0118

ARSC300 **Management and Leadership I**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Junior standing or higher.

The study of leadership and management fundamentals, professional knowledge, Air Force doctrine, and written and oral communication skills. Case studies are used to examine leadership and management situations. This course will satisfy credit toward a minor in military studies.

0101	Isham Nichols Th 9:00am - 12:00pm	Seats (Total: 26) JMZ 0120
0201	Isham Nichols TuTh 12:30pm - 2:00pm	Seats (Total: 20) SKN 1112

ARSC400 **National Security Forces in Contemporary American Society I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of UGST-AFROTC-Air Science; or (ARSC300 or ARSC301). Corequisite: ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Senior standing.

Study of American national security policy and processes to include information and implementation, impact of major national and international actors, and development of major policy issues. This course will satisfy credit towards a minor in military studies.

0101	David Bacot Th 9:00am - 12:00pm	Seats (Total: 18) ARM 0118
0201	David Bacot TuTh 2:00pm - 3:30pm	Seats (Total: 18) ARM 0118

ARTH Art History & Archaeology Fall 2017

ARTH169A **Special Topics in Study Abroad I; Roman Archaeology On-Site**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169B **Special Topics in Study Abroad I; Arts of Modernity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

0101	Emily Egan TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0102	Emily Egan TuTh 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	Discussion
0103	Emily Egan TuTh 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0104	Emily Egan TuTh 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0105	Emily Egan TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion

0106	Emily Egan TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

0101	Anthony Colantuono MW 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0102	Anthony Colantuono MW 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0103	Anthony Colantuono MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion
0104	Anthony Colantuono MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
FC01	Abigail Upshaw MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) ASY 3211	

ARTH269A **Special Topics in Study Abroad II; Archaeology and Art of Ancient Italy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269C **Special Topics in Study Abroad II; Arts of Antiquity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH292 **Discovering Japan: How the Arts Shaped a Nation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Explores the origins and creation of Japan from ancient to contemporary times through East Asian and European exchange. Acquaints students with painting, sculpture, architecture, ceramics, gardens, and other art forms in relation to the various cultural contexts within which they were produced and used.

0101	Alicia Volk MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) ASY 2203 ASY 3221	Discussion
0102	Alicia Volk MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0103	Alicia Volk MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion

0104	Alicia Volk	Seats (Total: 25)	
	MW 10:00am - 10:50am F 10:00am - 10:50am	ASY 2203 ASY 3211	Discussion

ARTH305 **Archaeological Methods and Practice**

Credits: 3 Grading Method: Regular General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	George Hambrecht	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	KEY 0116

ARTH320 **Fourteenth and Fifteenth-Century Northern European Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The art of northern Europe with an emphasis on painting in the Netherlands and France.

0101	Louise Martinez	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	ASY 3215

ARTH335 **Seventeenth-Century Art in the Netherlands**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Painting, sculpture and architecture in seventeenth-century Netherlands

0101	Aneta Georgievska-Shine	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	ASY 3211

ARTH345 **Nineteenth-Century European Art to 1850**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major trends from Neo-Classicism to Romanticism through an interdisciplinary perspective with an emphasis on historical context.

0101	Dena Crosson TuTh 11:00am - 12:15pm	Seats (Total: 25) ASY 3211

ARTH350 **Twentieth-Century Art to 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTH201.

Painting, sculpture, and architecture in Europe and America from the late nineteenth century to the end of World War II.

0101	Steven Mansbach TuTh 9:30am - 10:45am	Seats (Total: 25) ASY 3215

ARTH359M **Film as Art; The Western and the Idea of the American West**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

This course is a consideration of the West in American Imagination. The primary documents and focus will be Western films.

0101	Greg Metcalf W 3:30pm - 7:00pm	Seats (Total: 25) ASY 4213A

ARTH362 **Twentieth-Century African-American Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Surveys and evaluates the art and visual culture of African Americans from 1900 to the present.

0101	Sybil Gohari TuTh 11:00am - 12:15pm	Seats (Total: 20) ASY 3217

ARTH369C **Special Topics in Study Abroad III; Art of Florence Visual**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369G **Special Topics in Study Abroad III; Art Gallery Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369J **Special Topics in Study Abroad III; Survey of Italian Renaissance and Mannerist Art 1300-1580**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369M **Special Topics in Study Abroad III; Michelangelo**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369P **Special Topics in Study Abroad III; History and Workshop of Latin America Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369Q **Special Topics in Study Abroad III; Patrons and Artists in Baroque Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH372 **Modern Latin American Art to 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Painting and sculpture in Latin America, with an emphasis on avant-garde movements in Mexico City, Havana, Buenos Aires, Sao Paulo, and Rio de Janeiro.

0101	Abigail McEwen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ASY 3211

ARTH386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Supervised internship experience in diverse areas of art historical, archaeological, and museological work.

Contact department for information to register for this course.

ARTH389A **Special Topics in Art History and Archaeology; The Art of Drawing: A Left and Right Brain Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Beryl Bland	Seats (Total: 10)
	W 2:00pm - 4:30pm	ASY 4306

ARTH389B **Special Topics in Art History and Archaeology; The Art of Color: A Left and Right Brain Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Beryl Bland	Seats (Total: 10)
	F 10:00am - 12:30pm	ASY 2318

ARTH389J **Special Topics in Art History and Archaeology; Renaissance Art from Florence to Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH389N **Special Topics in Art History and Archaeology; The Art of Seeing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Aneta Georgievska-Shine	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ASY 3217

ARTH389P **Special Topics in Art History and Archaeology; Help for Life's Journey: Visual and Material Culture in Northern Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course considers the ways in which people used art and objects to meet the challenges of life relating to health and disease, marriage and family, and social identity.

0101	Louise Martinez	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ASY 3215

ARTH389R **Special Topics in Art History and Archaeology; World Science Fiction Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as FILM359N. Credit granted for ARTH389R or FILM359N. The course will examine important global science fiction films, with emphasis on films made by directors in Asia, Africa, Europe, and South America.

0101	Jason Kuo	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	HBK 0302J

ARTH465 **The Landscape in Modern and Contemporary Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A consideration of the representations of outdoor spaces since 1850. Focuses on the ways in which artists have understood and tried to make sense of modern and postmodern cities, suburbs, and rural areas.

0101	Joshua Shannon	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	ASY 3215

ARTH488B **Colloquium in Art History; Mexican Muralism: Nation, Race, Revolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

0101	Abigail McEwen	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	ASY 3217

ARTH488I **Colloquium in Art History; Orientalism in Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

Also offered as FILM429I. Credit granted for ARTH488I or FILM429I. The course will use critical insights from cultural studies, psychoanalysis, post-colonialism, genre criticism, and feminism to examine the politically charged and ideologically biased cinematic representation of the peoples and cultures of North Africa and Asia.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

ARTH488V **Colloquium in Art History; Vermeer and the Masters of Genre Painting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

This course will explore the exciting world of Dutch Seventeenth Century Genre Painting through the lens of a major international exhibition, Vermeer and the Masters of Dutch Genre Painting.

0101	Arthur Wheelock	Seats (Total: 10)
	M 3:00pm - 5:30pm	ASY 3215

ARTH489Z **Special Topics in Art History; Art in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH498 **Directed Studies in Art History I**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH499 **Honors Thesis**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH692 **Methods of Art History**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Methods of research and criticism applied to typical art-historical problems; bibliography and other research tools.

For all non-Art History and Archaeology majors, permission of the department is required.

0101	Joshua Shannon	Seats (Total: 6)
	Th 3:00pm - 5:40pm	ASY 4304

ARTH708 **Seminar in Ancient Art and Archaeology; The Athenian Acropolis**

Credits: 3

Grading Method: Regular, Audit

High above the city, the Acropolis of Athens serves as a visual and cultural landmark in the topography of Greece. Utilizing evidence from ancient texts and modern archaeological investigations, this course traces the development and use of the site from the Neolithic through early modern periods.

0101	Emily Egan	Seats (Total: 6)
	Tu 3:00pm - 5:40pm	ASY 4304

ARTH738 **Seminar in Seventeenth-Century Southern European Art; On the Verge of Modernity: The Problem of Artistic Novelty from Renaissance to Baroque in Italy, France, and Spain**

Credits: 3

Grading Method: Regular, Audit

In Catholic southern Europe, the sixteenth and seventeenth centuries witnessed the efflorescence of a sophisticated artistic culture informed by a profound theoretical critique of earlier Renaissance art.

0101	Anthony Colantuono	Seats (Total: 6)
	M 3:00pm - 5:40pm	ASY 4304

ARTH779 **Seminar in Japanese Art; Avant-Garde Art in Japan**

Credits: 3

Grading Method: Regular, Audit

0101	Alicia Volk M 12:00pm - 2:40pm	Seats (Total: 6) ASY 4304	

ARTH798 **Directed Graduate Studies in Art History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ARTH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ARTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ARTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARTT Art Studio Fall 2017

ARTT100 **Two-Dimensional Design Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Principles and elements of two-dimensional design. Introduction to visual communication.

Students must pay a $40.00 laboratory studio fee.

0101	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0201	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0301	Jessica Van Brakle TuTh 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab

0401	Jessica Van Brakle TuTh 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab
0501	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0601	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0701	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab
0801	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab

ARTT110 **Elements of Drawing I**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 laboratory studio fee.

0101	Jowita Wyszomirska MW 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0201	Jowita Wyszomirska MW 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab
0301	Steven Jones TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0401	Steven Jones TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
0501	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab

0701	Clayton Dunklin MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
0801	Clayton Dunklin MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0901	Rashin Kheiriyeh TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
1001	Rashin Kheiriyeh TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
1101	Jowita Wyszomirska MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
1201	Jowita Wyszomirska MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
FC01	Leslie Berns MW 6:00pm - 8:30pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 18) ASY 2317	

ARTT110S **Elements of Drawing I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Restricted to College Park Scholars - Arts. Students must pay a $40.00 laboratory studio fee.

0601	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab

ARTT150 **Introduction to Art Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.

0101	Richard Klank MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3215	Discussion
0102	Richard Klank MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0103	Richard Klank MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0201	Rex Weil TuTh 3:30pm - 4:20pm Tu 2:00pm - 2:50pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0202	Rex Weil TuTh 3:30pm - 4:20pm Th 2:30pm - 3:20pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0203	Rex Weil TuTh 3:30pm - 4:20pm Th 12:30pm - 1:20pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
FC01	Rex Weil TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3211	

ARTT200 **Three-Dimensional Art Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110.

Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.

Students must pay a $40.00 laboratory studio fee.

0101	Cy Keener MW 9:00am - 11:30am	Seats (Total: 18) ASY 1311	Lab

0201	Foon Sham TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	Lab
0301	Rebecca Basch MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	Lab

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 laboratory studio fee.

0101	Emily Conover TuTh 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	Lab
0201	Thomas Bunnell MW 3:00pm - 5:30pm	Seats (Total: 16) ASY 2315	Lab
0301	Lillian Hoover MW 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	Lab
0401	Patrick Craig TuTh 3:00pm - 5:30pm	Seats (Total: 16) ASY 2315	Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 laboratory studio fee.

0101	Narendra Ratnapala MW 9:00am - 11:30am	Seats (Total: 24) ATL 1410	Lab
0201	Narendra Ratnapala TuTh 3:30pm - 6:00pm	Seats (Total: 24) ATL 1410	Lab
0301	Narendra Ratnapala MW 1:00pm - 3:30pm	Seats (Total: 24) ATL 1410	Lab

ARTT269B **Special Topics in Study Abroad II; Buon Fresco**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT320 **Elements of Painting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes of oil and/or acrylic painting.

Students must pay a $40.00 laboratory studio fee.

0101	Patrick Craig TuTh 12:30pm - 3:00pm *Emphasizes acrlic paint.*	Seats (Total: 18) ASY 3312	Lab
0201	Richard Klank MW 9:00am - 11:30am	Seats (Total: 13) ASY 3322	Lab
0301	Lillian Hoover MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 3322	Lab

ARTT330 **Elements of Sculpture: Metal Casting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee.

0101	John Ruppert	Seats (Total: 12)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT330H **Elements of Sculpture: Metal Casting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

0101	John Ruppert	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT331 **Elements of Sculpture: Steel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.

Students must pay a $40.00 laboratory studio fee.

0101	Hugh Bryant	Seats (Total: 12)	
	TuTh 12:30pm - 3:00pm	ASY 1314	Lab

ARTT333 **Elements of Sculpture: Wood and Mixed Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham	Seats (Total: 12)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT333H **Elements of Sculpture: Wood and Mixed Media**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT340 **Elements of Printmaking: Intaglio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to etching, aquatint, and drypoint.

Students must pay a $40.00 laboratory studio fee.

0101	Matthew McLaughlin	Seats (Total: 10)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT340H **Elements of Printmaking: Intaglio**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to etching, aquatint, and drypoint.

Student's must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

0101	Matthew McLaughlin	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT341 **Elements of Printmaking: Woodcut and Relief**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course.

0101	Alessandra Echeverri	Seats (Total: 10)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT341H **Elements of Printmaking: Woodcut and Relief**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course. This course is restricted to departmental honors students only.

0101	Alessandra Echeverri	Seats (Total: 2)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT343 **Elements of Printmaking: Screen Printing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 8)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT343H **Elements of Printmaking: Screen Printing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 2)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT353 **Elements of Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to black-and-white photography. Basic technical and aesthetic vocabulary, camera mechanics and darkroom techniques. Introduction to the photographic message and meaning in both fine art and design concept.

Students must pay a $40.00 laboratory studio fee. SLR film camera required.

Contact department for information to register for this course.

ARTT355 **Intermediate Graphic Design Principles**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must be admitted to the Graphic Design Concentration (Track 3). Credit only granted for: ARTT350 or ARTT355. Formerly: ARTT350.

Investigation of basic concepts, history, techniques, and materials use by professional graphic designers, focusing on typography. Explores various aspects of design related to typography through examination and production of many types of finished work.

Students must pay $40.00 laboratory studio fee.

0101	Audra Buck-Coleman	Seats (Total: 25)	
	MW 9:00am - 11:30am	ASY 2322	Lab

ARTT356 **Graphic Design Processes**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must have been admitted to Graphic Design Concentration (Track 3). Credit only granted for: ARTT351 or ARTT356. Formerly: ARTT351.

Explores computer graphics and visual communcation principles in a time-based context. Examination of fundamental design principles through digital projects that involve photo manipulation, digital illustration, layout, animation, and web design.

Students must pay $40.00 laboratory studio fee.

0101	Liese Zahabi	Seats (Total: 25)	
	TuTh 9:00am - 11:30am	ASY 2322	Lab

ARTT369P **Special Topics in Study Abroad III; Spain Seen by Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT370 **Elements of Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; or permission of ARHU-Art department.

Exploration of image creation and manipulation, interactivity, and linkages between digital audio and video. Emphasis on issues in contemporary digital art.

Students must pay $40.00 laboratory studio fee.

0101	Brandon Morse	Seats (Total: 14)	
	TuTh 12:30pm - 3:00pm	ASY 3304	Lab

ARTT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT389 **Department of Art Undergraduate Teaching Assistantship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized assistantship in the teaching of a specified department course offering. Must have previously received an "A" grade for the class to be assisting.

Contact department for information to register for this course.

ARTT399 **Department of Art Research Assistantship**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized experiential learning developed in relation to art-related research issues.

Contact department for information to register for this course.

ARTT409K **Study Abroad Special Topics IV; New Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT418B **Advanced Drawing Studio; A Contemporary Approach**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; or permission of department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

0101	Steven Jones	Seats (Total: 16)	
	TuTh 12:30pm - 3:00pm	ASY 2314	Lab

0301	Jowita Wyszomirska MW 3:30pm - 6:00pm	Seats (Total: 16) ASY 2314	Lab

ARTT418H **Advanced Drawing Studio; Honors Drawing: A Contemporary Approach**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Jowita Wyszomirska MW 3:30pm - 6:00pm	Seats (Total: 2) ASY 2314	Lab
0201	Steven Jones TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 2314	Lab
0301	Patrick Craig TuTh 3:30pm - 6:00pm	Seats (Total: 2) ASY 2314	Lab

ARTT428 **Advanced Painting Studio; Painting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT320 or permission of the department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions.

0101	Leslie Berns TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 3318	Lab
0201	Emily Conover TuTh 3:30pm - 6:00pm *Emphasizes acrylic paint.*	Seats (Total: 18) ASY 3316	Lab
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 8) ASY 3322	Lab

ARTT428H **Advanced Painting Studio; Honors Painting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Emily Conover TuTh 3:30pm - 6:00pm	Seats (Total: 2) ASY 3312	Lab
0201	Leslie Berns TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 3322	Lab
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 2) ASY 3322	Lab

ARTT428X **Advanced Painting Studio; Advanced Painting Studio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Contact department for information to register for this course.

ARTT438A **Advanced Sculpture Studio; Metal Casting and Mixed Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT330 or permission of department. Students must pay a $40.00 studio laboratory fee.

0101	John Ruppert MW 3:00pm - 5:30pm	Seats (Total: 4) ASY 1310	

ARTT438C **Advanced Sculpture Studio; Steel and Mixed Media Sculpture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT331 or permission of instructor. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	John Ruppert MW 3:00pm - 5:30pm	Seats (Total: 8) ASY 1314	

ARTT438D **Advanced Sculpture Studio; Wood and Mixed Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 4) ASY 1311	Lab

ARTT438H **Advanced Sculpture Studio; Honors Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 2) ASY 1311	Lab
0201	John Ruppert MW 3:00pm - 5:30pm	Seats (Total: 2) ASY 1314	
0301	John Ruppert MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 1314	Lab

ARTT438I **Advanced Sculpture Studio; Metal Casting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT330 or permission of instructor. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	John Ruppert	Seats (Total: 4)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT448A **Advanced Printmaking Studio; Intaglio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT340. Students must pay a $40.00 laboratory studio fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Matthew McLaughlin	Seats (Total: 4)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT448E **Advanced Printmaking Studio; Screen Printing**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT343. Students must pay a $40.00 laboratory studio fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Justin Strom	Seats (Total: 12)	
	TuTh 3:00pm - 5:30pm	ASY 1317	Lab

ARTT448F **Advanced Printmaking Studio; Advanced Woodcut and Relief**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT341. Students must pay a $40.00 laboratory studio fee. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Alessandra Echeverri MW 9:00am - 11:30am	Seats (Total: 4) ASY 1317	 Lab

ARTT448H **Advanced Printmaking Studio; Honors Printmaking Studio**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: 300-level printmaking course and admission to Department Honors Program. Permission of Department required. Students must pay a $40.00 studio lab fee.

0101	Justin Strom TuTh 3:00pm - 5:30pm	Seats (Total: 4) ASY 1317	 Lab
0401	Matthew McLaughlin MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 1317	 Lab
0501	Alessandra Echeverri MW 9:00am - 11:30am	Seats (Total: 2) ASY 1317	 Lab

ARTT454 **Advanced Graphic Design Principles: Design in Society**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT355 and ARTT356.

Focus on social responsibility and community activism. History and theory of propaganda and advocacy-based design. Students explore current design practices, work individually, and collaborate in teams with non-profits or other clients with community-based or socio-cultural agendas. Research and writing-intensive course.

$40 laboratory studio fee.

0101	Audra Buck-Coleman MW 12:30pm - 3:00pm	Seats (Total: 25) ASY 2322	 Lab

ARTT457 **Advanced Interactive Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT357.

Advanced concepts and techniques of interactive design and interactive software. Examination of corporate, client-based, and public service-based interactive graphic design. Emphasis on web-based interactive design structures.

$40 laboratory studio fee.

0101	Liese Zahabi	Seats (Total: 20)	
	TuTh 12:30pm - 3:00pm	ASY 2322	Lab

ARTT460 **Seminar in Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT468A **Seminar on the Interrelationship Between Art and Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT468W **Seminar on the Interrelationship Between Art and Art Theory; History and Workshop of Latin America Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT479A **Advanced Digital Media Studio; Code and Form**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

There is a $40.00 studio lab fee. Advanced level course in Digital Media emphasizing contemporary practices and theories in the area of Digital Fabrication. 3-D modeling, 3-D printing and related digital fabrication techniques are covered.

0101	Cy Keener	Seats (Total: 14)	
	MW 3:00pm - 5:30pm	ASY 3304	Lab

ARTT479C **Advanced Digital Media Studio; Sound Art: Practice and Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT370. Students must pay a $40.00 studio lab fee. Basics of sound recording, mixing, and processing, as well as creative applications of sound used for screen-based practices, performance and installation art. Theoretical concepts central to sound as an artistic medium are also introduced.

0101	Shannon Collis	Seats (Total: 14)	
	MW 12:30pm - 3:00pm	ASY 3304	Lab

ARTT479D **Advanced Digital Media Studio; Immersive and Virtual Environments**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Introduction to the uses of game development software in an artistic context. Practical examination of interactive, immersive and installation art as mediated through the context of real-time computer generated imagery and game engine methodologies.

0101	Brandon Morse	Seats (Total: 14)	
	TuTh 3:00pm - 5:30pm	ASY 3304	

ARTT479H **Advanced Digital Media Studio; Honors Advanced Digital Media**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT370. Restricted to Departmental Honors students. Basics of sound recording, mixing, and processing, as well as creative applications of sound used for screen-based practices, performance and installation art. Theoretical concepts central to sound as an artistic medium are also introduced. Students must pay a $40.00 studio lab fee.

0101	Brandon Morse TuTh 3:00pm - 5:30pm *Advanced Code and Form.*	Seats (Total: 2) ASY 3304	
0201	Shannon Collis MW 12:30pm - 3:00pm *Advanced Sound Art: Practice and Theory.*	Seats (Total: 2) ASY 3311E	Lab

ARTT480H **Honors Seminar**

(Perm req)

Credits: 3

Grading Method: Regular

Team-taught seminar focusing on relationship between student's work and the theoretical context of contemporary art.

Students must pay $40.00 laboratory fee.

0101	Shannon Collis F 10:00am - 1:30pm	Seats (Total: 7) ASY 2311	Lab

ARTT489C **Advanced Special Topics in Art; Markets and Collecting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

0101	Rex Weil Th 11:30am - 2:00pm	Seats (Total: 15) ASY 3219	

ARTT489I **Advanced Special Topics in Art; Digital Imaging**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Prerequisite: ARTT354. Students must pay a $40.00 laboratory studio fee.

Contact department for information to register for this course.

ARTT489N **Advanced Special Topics in Art; Design in Illustration**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Prerequisite: ARTT210. This course may not be used to satisfy the studio art elective requirement for the Graphic Design Concentration-Track 3. Students must pay a $40.00 studio lab fee.

0101	James Thorpe	Seats (Total: 20)	
	TuTh 9:00am - 11:30am	ASY 2318	Lab

ARTT489R **Advanced Special Topics in Art; New Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced studio art and theory within the context of a special topic.

Contact department for information to register for this course.

ARTT498A **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498B **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498H **Directed Studies in Studio Art; Honors Thesis**

(Perm req)

Credits: 2-3

Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Restricted to departmental honors students only. Prerequisite: permission of department. Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498I **Directed Studies in Studio Art; Animation, Editing, and Special Effects**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Contact department for information to register for this course.

ARTT618 **Drawing; Drawing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT628 **Painting; Painting**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Graduate painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT638 **Sculpture; Sculpture**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT648 **Printmaking; Printmaking**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698C **Directed Graduate Studies in Studio Art; Graduate Teaching Practicum**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT718 **Drawing; Drawing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT728 **Painting; Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT738 **Sculpture; Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT748 **Printmaking; Printmaking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT768 **Graduate Colloquium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Examines various aspects of art, art theory and criticism in a contemporary and multi-cultural context. Relates student work to this context.

Students must pay a $60.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 20)
	Tu 6:30pm - 9:30pm	MMH 0401

ARTT798A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT798B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR Astronomy Fall 2017

ASTR100 **Introduction to Astronomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

0101	Suvi Gezari TuTh 9:30am - 10:45am M 1:00pm - 1:50pm	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
0102	Suvi Gezari TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
0103	Suvi Gezari TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
0104	Suvi Gezari TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
0105	Suvi Gezari TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
0106	Suvi Gezari TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 40) PHY 1412 ATL 2400	Discussion
FC01	Blake Hartley TuTh 4:30pm - 5:45pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 32) ATL 1113 ATL 2428	Discussion

ASTR101 **General Astronomy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Discussion sections and lab sections do not meet the first week of classes. Attend lecture before coming to discussion or lab sections.

0101	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Tu 5:30pm - 7:30pm Tu 3:30pm - 4:20pm	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0102	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 8:30am - 10:30am Tu 3:30pm - 4:20pm	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0103	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 11:00am - 1:00pm W 10:00am - 10:50am	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0104	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 3:30pm - 5:30pm W 10:00am - 10:50am	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0105	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 1:00pm - 3:00pm W 11:00am - 11:50am	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0106	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 8:30am - 10:30am W 11:00am - 11:50am	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0107	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 6:00pm - 8:00pm W 12:00pm - 12:50pm	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion
0108	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 6:00pm - 8:00pm W 12:00pm - 12:50pm	PHY 1412 ATL 0254 ATL 2400	 Lab Discussion

0109	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PHY 1412	
	F 9:00am - 11:00am	ATL 0254	Lab
	W 1:00pm - 1:50pm	ATL 1113	Discussion
0110	Sylvain Veilleux	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PHY 1412	
	F 12:00pm - 2:00pm	ATL 0254	Lab
	W 1:00pm - 1:50pm	ATL 1113	Discussion
FC01	Blake Hartley	Seats (Total: 15)	
	TuTh 4:30pm - 5:45pm	ATL 1113	
	M 6:00pm - 8:00pm	ATL 0254	Lab
	F 1:00pm - 1:50pm	ATL 2428	Discussion
	Restricted to students in Freshmen Connection.		

ASTR120 **Introductory Astrophysics - Solar System**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Must not have completed ASTR101 or ASTR100. Credit only granted for: ASTR100, ASTR101, or ASTR120.

For students majoring in astronomy or with a strong interest in science Topics include development of astronomy, planetary orbits, electromagnetic radiation, telescopes as well as constituents and origin of the solar system (planets, satellites, comets, asteroids, meteoroids, etc.).

0101	Michael Miller	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	ATL 2400	
	F 1:00pm - 1:50pm	ATL 2400	Discussion

ASTR230 **The Science and Fiction of Planetary Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Prerequisite: Must have math eligibility of MATH115 or higher; or MATH113.

Have you ever wondered if humans will ever terraform Mars or Europa so we could live there without a spacesuit? Has it ever crossed your mind how lucky you are that you live on a water-rich planet with an oxygen-rich atmosphere? Have you ever suspected novelists and scriptwriters of creating ridiculous planets that violate scientific laws? Does the fate of our planet's thin biosphere keep you up at night? How common is life in the Universe? These are difficult questions, but armed with the right information, you can answer all of them. The Science and Fiction of Planetary Systems will help you develop a deeper understanding of why planets are the way they are. Along the way, you'll see examples of mistakes made in classic science fiction movies, novels and short stories and get the chance to invent your own plausible planets!

0101	Alan Peel M 9:00am - 9:50am MWF 12:00pm - 12:50pm	Seats (Total: 36) PHY 1410 ESJ B0320	 Discussion
0102	Alan Peel M 9:00am - 9:50am MWF 1:00pm - 1:50pm	Seats (Total: 36) PHY 1410 ESJ B0320	 Discussion
0103	Alan Peel M 9:00am - 9:50am MWF 2:00pm - 2:50pm	Seats (Total: 36) PHY 1410 ESJ B0320	 Discussion

ASTR288 **Special Projects in Astronomy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

A faculty sponsor must be found by the students prior to enrollment.

Contact department for information to register for this course.

ASTR288C **Special Projects in Astronomy; Astronomy Research Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

0101	Amy Lien M 3:30pm - 5:15pm	Seats (Total: 10) ATL 0201	

ASTR288I **Special Projects in Astronomy; Introduction to the Astronomy Major**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

Prerequisite: permission of department.

0101	Andrew Harris, Melissa Hayes-Gehrke M 4:00pm - 4:50pm	Seats (Total: 20) ATL 1114
0201	Melissa Hayes-Gehrke, Andrew Harris Tu 4:00pm - 4:50pm	Seats (Total: 20) ATL 1106

ASTR288P **Special Projects in Astronomy; Introduction to Astonomical Programming**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

Prerequisite: Permission of CMNS-Astronomy department required. Must have completed or be concurrently enrolled in ASTR121. Astronomy students are provided with the basics of using the Unix/Linux operating system and scientific programming using either C or Python.

0101	Sean Griffin F 2:00pm - 4:00pm	Seats (Total: 8) ATL 0224

ASTR300 **Stars and Stellar Systems**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. Study of stars-types, properties, evolution, and distribution in space; supernovae, pulsars, and black holes.

0101	A Sharma TuTh 11:00am - 12:15pm	Seats (Total: 60) ESJ 2309

ASTR310 **Observational Astronomy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: ASTR121; and (PHYS171 or PHYS161). Or permission of CMNS-Astronomy department. Restriction: Must be in Astronomy program.

Introduction to current optical observational techniques, with brief coverage of infrared, ultraviolet, and x-ray techniques. Statistics, spherical trigonometry time, catalogs, geometrical and physical optics, telescopes, and optical instruments. Effects of the atmosphere. Practical work at the observatory using a CCD camera. Some nighttime observing sessions.

0101	Melissa Hayes-Gehrke TuTh 2:00pm - 3:15pm M 9:00am - 10:50am	Seats (Total: 10) ATL 1114 ATL 0224	 Lab
0102	Melissa Hayes-Gehrke TuTh 2:00pm - 3:15pm M 1:00pm - 2:50pm	Seats (Total: 10) ATL 1114 ATL 0224	 Lab

ASTR330 **Solar System Astronomy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or the General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department. Credit only granted for: ASTR330 or GEOL212.

Designed primarily for non-science majors. The structure of planets and of their atmospheres, the nature of comets, asteroids, and satellites. Comparison of various theories for the origin of the solar system. Emphasis on a description of recent data and interpretation.

0101	Jessica Sunshine TuTh 9:30am - 10:45am	Seats (Total: 60) ATL 2400

ASTR380 **Life in the Universe - Astrobiology**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSNS

Designed primarily for non-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life in the universe.

0101	Michael Corcoran, Kenji Hamaguchi TuTh 2:00pm - 3:15pm	Seats (Total: 60) ATL 2400

ASTR399 **Honors Seminar**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Credit according to work done.

Contact department for information to register for this course.

ASTR435 **Astrophysics of Exoplanets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ASTR121; and (PHYS273; or (PHYS270 and PHYS271)). Or permission of CMNS-Astronomy department. Credit only granted for: ASTR 498X or ASTR 435. Formerly: ASTR 498X.

Introduction to exoplanets. Topics include historical development, advantages, and limitations of detection methods, the statistics of exoplanet characteristics, the bulk properties of known expolanets, and remote sensing for characterization of exoplanets.

0101	Leo Deming TuTh 3:30pm - 4:45pm	Seats (Total: 30) ATL 2428

ASTR450 **Orbital Dynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ASTR320; or permission of CMNS-Astronomy department.

Vectorial mechanics, motion in a central force field, gravitational and non-gravitational forces, the two-body and three-body problems, orbital elements and orbital perturbation theory, resonances in the solar system, chaos. Intended for students majoring in any of the physical sciences.

0101	Douglas Hamilton TuTh 12:30pm - 1:45pm	Seats (Total: 30) ATL 2428

ASTR498 **Special Problems in Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

ASTR601 **Radiative Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Emission, absorption, and scattering of radiation by matter, with astrophysical applications. Thermodynamics and statistical mechanics: LTE, Boltzmann, and Saha equations; radiative transfer; atomic and molecular radiation; plasma radiation and transfer: bremsstrahlung, synchrotron emission, Compton scattering.

0101	Massimo Ricotti TuTh 12:30pm - 1:45pm	Seats (Total: 20) ATL 0201

ASTR615 **Computational Astrophysics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department. Formerly: ASTR688C.

Introduction to computational techniques used in astrophysical research. Topics include modern high performance computer architectures, scientific visualization and data analysis, and detailed descriptions of numerical algorithms for the solution to a wide range of mathematical systems important in astrophysics.

0101	Derek Richardson TuTh 2:00pm - 3:15pm	Seats (Total: 20) ATL 0224

ASTR620 **Galaxies**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Galaxy classifications; Milky way: basic data, distribution of stars, gas, dust and relativistic particles, large-scale structure and rotation; Spiral galaxies: stellar dynamics and stability, density waves, star bursts, galactic center; Elliptical galaxies: stellar dynamics, cannabalism; galaxy formation.

0101	Richard Mushotzky MW 2:00pm - 3:15pm	Seats (Total: 20) ATL 0201

ASTR695 **Introduction to Research**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Provides an introduction to research programs in the Department of Astronomy and a forum to explore possible research projects. Aimed at incoming graduate students.

0101	Michael Miller	Seats (Total: 20)
	M 5:00pm - 5:50pm	Location: TBA

ASTR699 **Special Problems in Advanced Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BCHM Biochemistry Fall 2017

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to Post-Baccalaureate students who enroll through the Science in the Evening Program in the College of Computer, Mathematical and Natural Sciences. Please note that this class is charged at the regular part-time tuition rate (on a per credit basis), even for full- time students. To register or to learn more about the Science in the Evening program, you must contact the Life Sciences Outreach and Special Programs Office at (301) 405-6892.*

BCHM461 **Biochemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Dorothy Beckett TuTh 9:30am - 10:45am	Seats (Total: 110) CHM 1402
0102	David Fushman MW 4:00pm - 5:15pm	Seats (Total: 110) CHM 1402
0103	Paul Paukstelis TuTh 12:30pm - 1:45pm	Seats (Total: 105) CHM 1402

BCHM462 **Biochemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.

A continuation of BCHM 461. Metabolic pathways and metabolic regulation energy transduction in biological systems, enzyme catalytic mechanisms.

0102	Douglas Julin MWF 11:00am - 11:50am	Seats (Total: 100) CHM 1402

BCHM463 **Biochemistry of Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Christiana Addei-Maanu TuTh 11:00am - 12:15pm	Seats (Total: 125) CHM 1402
0103	Bonnie Dixon MWF 12:00pm - 12:50pm	Seats (Total: 125) CHM 1402

SEF1	Christiana Addei-Maanu M 6:30pm - 9:30pm	Seats (Total: 40) MCB 1207
	Restricted to students in the SIE Program. Click here for more information.	
SG91	Ryan Marcheschi MW 9:30am - 10:45am	Seats (Total: 40) BLD2 3022
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

BCHM464 **Biochemistry Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for all College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: BCHM465. Restriction: BCHM, CHEM, and Nutritional Sciences majors have first priority, followed by other life science majors.

Biochemical and genetic methods for studying protein function. Site-directed mutagenesis and molecular cloning, protein purification, enzyme activity assays, computer modeling of protein structure.

Students must pay a $40.00 laboratory materials fee.

0101	Christopher Capp Tu 12:30pm - 1:20pm Th 12:30pm - 5:30pm	Seats (Total: 18) CHM 1224 ESJ 0316	 Lab
0102	Christopher Capp Tu 12:30pm - 1:20pm W 12:00pm - 5:00pm	Seats (Total: 18) CHM 1224 ESJ 0316	 Lab

BCHM465 **Biochemistry III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Recommended: BCHM462.

CORE Capstone (CS) Course. An advanced course in biochemistry. Biochemical approach to cellular information processing. DNA and RNA structure. DNA replication, transcription, and repair. Translation of mRNA to make proteins.

0101	Theodore Dayie	Seats (Total: 80)
	TuTh 8:00am - 9:15am	CHM 1402

BCHM661 **Nucleic Acids I**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: BSCI410 and BCHM465.

Topics covered: Chemistry and structure of DNA and RNA, from nucleotide to chromatin, chromosomes, and genomes, and some methods for studying, synthesizing, sequencing and manipulating nucleic acids. Rudimentary genomics and bioinformatics. DNA Biology: selected aspects of the biochemistry and regulation of DNA replication, repair, and recombination, and how these processes interact with each other.

0101	Jason Kahn	Seats (Total: 30)
	Meets August 28, 2017 - October 14, 2017	
	MWF 9:30am - 10:50am	BSB 2118

BCHM662 **Nucleic Acids II**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: BCHM661.

Topics covered: Interactions between nucleic acids and ligands such as cations, drugs, and especially proteins. Sources of binding affinity and specificity. Selection-amplification methods. Description of several classes of protein-nucleic acids complexes. DNA/RNA catalysis, the origin of life, mobile genetic elements.

0101	Jason Kahn	Seats (Total: 30)
	Meets October 15, 2017 - December 11, 2017	
	MWF 9:30am - 10:50am	BSB 2118

BCHM669C **Special Topics in Biochemistry; Protein Folding and Disease**

Credits: 3 Grading Method: Regular, Audit

0101	John Orban	Seats (Total: 10)
	Meets August 28, 2017 - October 14, 2017	
	TuTh 2:00pm - 4:40pm	PLS 5112

BCHM669D **Special Topics in Biochemistry; Drug Discovery**

Credits: 3 Grading Method: Regular, Audit

0101	Osnat Herzberg	Seats (Total: 10)
	Meets October 15, 2017 - December 11, 2017	
	TuTh 2:00pm - 4:40pm	PLS 5112

BCHM671 **Protein Chemistry and Enzymic Catalysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BCHM461; or students who have taken courses with comparable content may contact the department.

Principles of protein structure, folding, and function, experimental characterization of structure, active sites, enzyme mechanisms and kinetics.

0101	Nicole LaRonde	Seats (Total: 35)
	TuTh 9:30am - 10:50am	BSB 2118

BCHM698 **Literature Seminar in Biochemistry**

Credits: 2 Grading Method: Regular

Students will prepare and present a departmental seminar based on a topic in the current biochemical research literature.

0101	Paul Paukstelis	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM699 **Special Problems in Biochemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Open only to non-thesis M.S. degree candidates.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BCHM889A **Seminar; Biochemistry**

Credits: 1 Grading Method: Regular, Audit

0101	Theodore Dayie	Seats (Total: 40)
	Tu 11:00am - 11:50am	CHM 0112

BCHM889C **Seminar; Allostery in DNA Binding**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889D **Seminar; Enzymology Recombination**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889F **Seminar; Antimicrobial Peptides**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889J **Seminar; Nucleic Acid Structures**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM889M **Seminar; Modern Methods in NMR and Structural Biology**

Credits: 1-3 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 40)
	Contact instructor or department for details.	

BCHM889P **Seminar; Structure and Reactivity of Biopolymers**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BIOE Bioengineering Fall 2017

BIOE120 **Biology for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

Students will be introduced to the functions and interactions of biological systems from a quantitative perspective. They will also be encourage d to solve problems through active inquiry, critical analysis,and creat ivity. Finally, roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

0101	Angela Jones TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 30) ESJ 0215 ESJ 0215	 Discussion
0102	Angela Jones TuTh 9:30am - 10:45am Th 5:00pm - 5:50pm	Seats (Total: 30) ESJ 0215 EGR 1104	 Discussion
0201	Angela Jones MWF 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 30) ESJ 2212 ESJ 2212	 Discussion
0202	Angela Jones MWF 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 30) ESJ 2212 ESJ 2212	 Discussion
0301	Melani Solomon TuTh 9:30am - 10:45am Tu 3:00pm - 3:50pm	Seats (Total: 30) KEB 1200 PLS 1119	 Discussion
0302	Melani Solomon TuTh 9:30am - 10:45am Th 2:00pm - 2:50pm	Seats (Total: 30) KEB 1200 JMP 1109	 Discussion

BIOE121 **Biology for Engineers Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BIOE120. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Bioengineering encompasses numerous sub-disciplines that apply engineering principles to analyze biological systems and that utilize engineering design strategies to solve biological and biomedical problems. This course is aimed at providing students with the opportunity to learn how biology and engineering can synergistically contribute to our understanding of such problems, and to gain hands-on experience in basic techniques relevant to Bioengineering.

0101	Angela Jones Tu 8:00am - 8:50am W 8:00am - 10:00am	Seats (Total: 24) CSI 2117 CHE 1145	 Lab
0102	Angela Jones Tu 8:00am - 8:50am W 3:00pm - 5:00pm	Seats (Total: 24) CSI 2117 CHE 1145	 Lab
0103	Angela Jones Tu 8:00am - 8:50am F 8:00am - 10:00am	Seats (Total: 24) CSI 2117 CHE 1145	 Lab

BIOE221 **Academic and Career Planning**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.

0101	Abby Shantzis Tu 4:00pm - 4:50pm	Seats (Total: 60) ESJ 0215	

BIOE232 **Bioengineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

0101	Gregory Payne TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) EGR 1108 EGR 0135	 Discussion

0102	Gregory Payne TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 30) EGR 1108 EGR 0135	 Discussion

BIOE241 **Biocomputational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0101	Hubert Montas MWF 4:00pm - 4:50pm	Seats (Total: 30) KEB 2107	
0201	Hubert Montas MWF 5:00pm - 5:50pm	Seats (Total: 30) KEB 2107	

BIOE331 **Biofluids**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and must have completed or be concurrently enrolled in BIOE232. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE331, ENCE305, or ENME331.

Principles and applications of fluid mechanics with a focus on bioengineering topics. Content includes conservation of mass, momentum, and energy, as well as the application of these fundamental relations to hydrostatics, control volume analysis, internal and external flow, and boundary layers. Applications to biological and bioengineering problems such as tissue engineering, bioprocessing, imaging, and drug delivery.

0101	Gregg Duncan MW 12:30pm - 1:45pm F 1:00pm - 2:50pm	Seats (Total: 30) MCB 1207 CHM 0119	 Discussion
0102	Gregg Duncan MW 12:30pm - 1:45pm F 3:00pm - 4:50pm	Seats (Total: 30) MCB 1207 CHM 0119	 Discussion

BIOE340 **Modeling Physiological Systems and Lab**

(Perm req)

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, BIOE120, BIOE121, BIOE241, and MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE340 or (BSCI440 and BSCI441).

Topics covered will include cell and general physiology, membrane physiology, blood cells and clotting, circulation, metabolism, respiration, and the nervous system. A lab component will also be included.

0101	John Fisher	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	KEB 1200	
	Th 5:00pm - 6:30pm	KEB 2111	Lab
	Tu 8:00am - 8:50am	KEB 1200	Discussion
	Lab will meet in either KEB2107 or KEB2111.		
0102	John Fisher	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	KEB 1200	
	Th 5:00pm - 6:30pm	KEB 2107	Lab
	M 8:00am - 8:50am	KEB 1200	Discussion

BIOE371 **Linear Systems and Ordinary Differential Equations for Bioengineering Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

This class utilizes fundamentals in linear systems, including eigenvalues and eigenvectors, as well as linear differential equations, to study various problems in bioengineering and biological systems, with a particular emphasis on feedback, stability, controllability, and control design.

0101	Lan Ma	Seats (Total: 50)
	MWF 4:00pm - 4:50pm	ESJ 2309

BIOE372 **Biostatistics for Experimental Design and Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: BIOE120, BIOE121, and BIOE241. Recommended: MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE372 or STAT464.

This course will instruct students in the fundamentals of probability and statistics through examples in biological phenomenon, the design of bioengineering experiments, and clinical data analysis. Fundamentals covered in the course include probability distributions, hypothesis testing, power analysis, regression analysis, and correlation analysis.

0101	Giuliano Scarcelli TuTh 8:00am - 9:15am F 10:00am - 10:50am	Seats (Total: 35) EGR 1108 EGR 3106	 Discussion
0102	Giuliano Scarcelli TuTh 8:00am - 9:15am F 11:00am - 11:50am	Seats (Total: 35) EGR 1108 PHY 1219	 Discussion

BIOE399 **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Prerequisite: permission of department.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE404 **Biomechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, ENES102, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues.

0101	Kimberly Stroka TuTh 9:30am - 10:45am M 10:00am - 10:50am	Seats (Total: 30) CHE 2108 CHM 0122	 Discussion

0103	Kimberly Stroka TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 30) CHE 2108 HBK 0123	 Discussion

BIOE437 **Computer-Aided Design in Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE437, BIOE689V, ENME414, ENME272, or ENAE488D. Formerly: BIOE689V.

Introduction to Computer-Aided Design (CAD). Basic CAD operations will be demonstrated in class with Creo Parametric (formerly Pro/E). Lecture topics will summarize design methodology, review best-practices in hardware development, and discuss engineering applications. The course will culminate in a student-selected project leveraging CAD.

0101	Milton Davis Tu 5:00pm - 7:45pm	Seats (Total: 40) KEB 2111	

BIOE453 **Biomaterials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231, MATH246, CHEM232, BIOE120, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE453, CHBE457, or ENMA425.

Examination of the structure and function of natural biomaterials, and cell-extracellular matrix interactions. Study physical properties of synthetic biomaterials for biomedical applications. Understanding molecular level interactions between biomolecules and biomaterials to design novel biomaterials with desirable characteristics. Application of biomaterials as implants, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds will be covered.

0101	Christopher Jewell MWF 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 36) KEB 1200 EGR 3106	 Discussion
0102	Christopher Jewell MWF 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 30) KEB 1200 EGR 2116	 Discussion

BIOE457 **Biomedical Electronics & Instrumentation**

(Perm req)

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, PHYS261, MATH246, and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Students learn fundamental concepts of electronics, assembly of electronic components into functional circuits, and integration of functional electronic devices and circuits into a system. In the lab component, students will learn to assemble and evaluate circuits and systems.

0101	Yang Tao TuTh 11:00am - 12:15pm W 9:00am - 10:50am	Seats (Total: 30) KEB 1200 ANS 0505	 Lab
0102	Yang Tao TuTh 11:00am - 12:15pm Th 1:30pm - 3:20pm	Seats (Total: 30) KEB 1200 ANS 0505	 Lab

BIOE485 **Capstone Design I: Entrepreneurship, Regulatory Issues, and Ethics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 21 credits in BIOE courses. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and senior standing; and must be in Engineering: Bioengineering program. Credit only granted for: BIOE485 or ENBE485. Formerly: ENBE485.

This is the first part of a two-semester senior capstone design course which covers principles involved in engineering design, design approaches, economics of design, ethics in engineering, and patent regulations. It also helps students learn team work and write design project proposals under the mentorship of a faculty advisor.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Yang Tao MW 2:00pm - 3:15pm	Seats (Total: 117) EGR 1202	

BIOE489A **Special Topics in Bioengineering; Python: Introduction to Programming and Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Eric Hoppmann M 5:00pm - 7:45pm	Seats (Total: 30) KEB 2111

BIOE489C **Special Topics in Bioengineering; Mechanical Design of Medical Devices**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Frank Modica W 5:00pm - 8:00pm	Seats (Total: 40) KEB 2111

BIOE489H **Special Topics in Bioengineering; Bioengineering Honors Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Kimberly Stroka M 3:15pm - 4:15pm	Seats (Total: 40) KEB 1200

BIOE489K **Special Topics in Bioengineering; Image Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Yu Chen TuTh 12:30pm - 1:45pm	Seats (Total: 30) EGR 3106

BIOE489M **Special Topics in Bioengineering; Biophysics of the Cell**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Jose Aranda-Espinoza TuTh 9:30am - 10:45am	Seats (Total: 30) EGR 1104

BIOE489P **Special Topics in Bioengineering; Therapeutic Development and Delivery**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Steven Jay	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	ESJ 1309

BIOE489R **Special Topics in Bioengineering; Protein Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Amy Karlsson	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	EGR 1104

BIOE601 **Biomolecular and Cellular Rate Processes**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE601 or ENCH859B.

Presentation of techniques for characterizing and manipulating non-linear biochemical reaction networks. Advanced topics to include mathematical modeling of the dynamics of biological systems; separation techniques for heat sensitive biologically active materials; and rate processes in cellular and biomolecular systems. Methods are applied to current biotechnological systems, some include: recombinant bacteria; plant insect and mammalian cells; and transformed cell lines.

0101	William Bentley	Seats (Total: 30)
	TuTh 9:30am - 10:45am	JMP 1202

BIOE604 **Cellular and Physiological Transport Phenomena**

Credits: 3

Grading Method: Regular

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A study of transport processes, including momentum, energy and mass transport, relevant to biosystems at various scales from physiological to cellular systems. Transport leads to sets of partial differential equations and the course revolves around approaches to solving these equations to arrive at fundamental understanding of the physics of transport in biosystems.

0101	Keith Herold TuTh 8:00am - 9:15am	Seats (Total: 30) EGR 2116
BI01	Keith Herold Class time/details on ELMs *This section is restricted to ENPM students only.*	Seats (Total: 30) ONLINE

BIOE605 **BIOE Graduate Studies I**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in ENGR: PhD Only-Bioengineering (Doctoral) program.

Introduction to the bioengineering graduate program. Students gain exposure to departmental research through lab rotation and to current research in the field through seminar. Students will also gain preparation and guidance on other first-year academic requirements.

0101	Jose Aranda-Espinoza W 10:00am - 11:00am	Seats (Total: 30) EGR 2154

BIOE608 **Bioengineering Seminar Series**

Credits: 1 Grading Method: Regular, Audit

A variety of topics related to Bioengineering will be presented in weekly seminars.

For BIOE majors only.

0101	Steven Jay F 9:00am - 9:50am	Seats (Total: 40) KEB 1105

BIOE689 **Special Topics in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE689C **Special Topics in Bioengineering; Biophysics of the Cell**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Jose Aranda-Espinoza TuTh 9:30am - 10:45am	Seats (Total: 10) EGR 1104

BIOE689E **Special Topics in Bioengineering; Microscopic Function of Cells, Tissues, Organs**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

For Master of Engineering students only or with permission of department

BI01	Keith Herold Class time/details on ELMs	Seats (Total: 20) ONLINE

BIOE689Y **Special Topics in Bioengineering; Applications of Tissue Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

Restriction: For Master of Engineering students only or with permission of department.

0101	Martha Wang Th 4:30pm - 7:15pm	Seats (Total: 20) PHY 0405
BI01	Martha Wang Class time/details on ELMs	Seats (Total: 20) ONLINE

BIOE689Z **Special Topics in Bioengineering; Image Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Yu Chen TuTh 12:30pm - 1:45pm	Seats (Total: 10) EGR 3106

BIOE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL Biology Fall 2017

BIOL608K **Biology Seminar; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular

Also offered as CBMG699K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

BIOL609 **Special Problems in Biology**

Credits: 1-6 Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL620 **Cell Biology**

Credits: 3 Grading Method: Regular, Audit

Offered with laboratory as BSCI 421. Molecular basis of cell structure and function in eukaryotes.

0101	Julia Marre	Seats (Total: 4)
	TuTh 12:30pm - 1:45pm	HJP 2242

BIOL667 **Mathematical Biology**

Credits: 4 Grading Method: Regular

Credit only granted for: BIOL667 or ZOOL625. Formerly: ZOOL625.

Mathematical methods of analyzing deterministic and stochastic biological processes from a variety of areas (including population and evolutionary biology, neurobiology, physiology, and morphogenesis). Qualitative aspects of dynamical systems which are usually given as difference or differential equations. The computer program Mathematica will be used to obtain the numerical solutions of these equations.

0101	Jonathan Simon	Seats (Total: 5)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

BIOL671 Molecular Evolution

Credits: 3 Grading Method: Regular

Credit only granted for: BIOL671 or ZOOL645. Formerly: ZOOL645.

Basic foundations through advanced concepts in molecular evolution, including patterns and processes of DNA sequence variation, transposable element dynamics, gene duplication and loss, and genome organization. Relevant concepts from genetics, biochemistry, and phylogenetics also will be covered.

0101	Michael Cummings	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	BPS 1238

BIOL704 Cell Biology from a Biophysical Perspective

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BIOL708O.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev	Seats (Total: 9)
	TuTh 3:30pm - 4:45pm	PLS 1113

BIOL708B Advanced Topics in Biology; Animal Behavior

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Gerald Borgia MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion
0102	Gerald Borgia MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion
0103	Gerald Borgia MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 1) PLS 1130 PLS 1162	 Discussion

BIOL708E **Advanced Topics in Biology; Diseases of the Nervous System**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Quentin Gaudry TuTh 12:30pm - 1:45pm	Seats (Total: 8) PLS 1130	

BIOL708Q **Advanced Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Ricardo Araneda MW 2:00pm - 3:15pm	Seats (Total: 10) BPS 2249	

BIOL709B **Selected Advanced Topics in Biology; R-Based Analyses & Programming for Community Ecology**

Credits: 3 Grading Method: Regular, Audit

Lectures, experimental courses and other special instructions in various biological subjects.

0101	Nathan Swenson Th 1:00pm - 3:30pm	Seats (Total: 15) BPS 1208	

BIOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOM Biometrics Fall 2017

BIOM301 **Introduction to Biometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: MATH113 or MATH115. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

0101	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0102	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0103	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 3:00pm - 3:50pm	Seats (Total: 26) EGR 1202 ANS 0473	Discussion
0104	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 26) EGR 1202 ANS 0473	Discussion

0105	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 26) EGR 1202 ANS 0473	 Discussion
0106	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) EGR 1202 ANS 0473	 Discussion
0107	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 25) EGR 1202 ANS 0473	 Discussion

BIOM405 **Computer Applications in Biometrics**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introduction to computer applications for data analysis. This is equivalent to the computer lab of 601 and is required for students that have taken BIOM 301 and BIOM402 and wish to go directly into BIOM602.

0101	Li Ma Contact instructor or department for details.	Seats (Total: 5)

BIOM601 **Biostatistics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: BIOM301 or STAT464; or students who have taken courses with comparable content may contact the department. Credit only granted for: BIOM401 or BIOM601.

Estimation and hypothesis testing, t tests, one and two way analysis of variance, regression, analysis of frequency data. Lecture will emphasize uses and limitations of these methods in biology, while the laboratory will emphasize the use of statistical analysis software for the analysis of biological data.

0101	Li Ma TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:00pm	Seats (Total: 27) ANS 0408 ANS 0473	 Lab
0102	Li Ma TuTh 12:30pm - 1:45pm W 9:00am - 11:00am	Seats (Total: 27) ANS 0408 ANS 0473	 Lab

0104	Li Ma	Seats (Total: 27)	
	TuTh 12:30pm - 1:45pm Th 2:00pm - 4:00pm	ANS 0408 ANS 0473	Lab

BIOM603 **Biostatistics III**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Must have completed a graduate-level statistical class; or students who have taken courses with comparable content may contact the department.

Applications and implementation of linear model analysis to biological data, including multivariate regression model, mixed model, generalized linear mixed model, nonlinear logistic and Poisson regression models, power calculation and survival analysis.

0101	Jiuzhou Song	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 9:00am - 10:50am	ANS 0402 ANS 0473	Lab

BIOM621 **Applied Multivariate Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOM602. Recommended: BIOM603.

Brief review of matrix algebra, means, covariance matrices, multivariat normal, multivariate confidence ellipses, MANOVA, Discriminant Methods, Principal Component Analysis, Factor Analysis, Multidimensional Scaling, Cluster Analyses, and other topics, depending on student interest.

0101	Bahram Momen	Seats (Total: 20)	
	TuTh 3:30pm - 4:45pm	HJP 1213	

BIOM688A **Topics in Biometrics; Consulting Experience in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.

Contact department for information to register for this course.

BIOM698 **Special Problems in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Individual study of a particular topic in biostatistics or biomathematics.

Contact department for information to register for this course.

BIPH Biophysics Fall 2017

BIPH698L **Biophysics Seminar; Biophysics**

Credits: 1 Grading Method: Regular, Audit

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	CHM 0112

BIPH699 **Research in Biophysics**

Credits: 2 Grading Method: Regular

Supervised research in biophysics laboratories. Rotations through several laboratories prior to a choice of laboratory for a research assistantship.

Contact department for information to register for this course.

BIPH704 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404, BIOL704. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev	Seats (Total: 9)
	TuTh 3:30pm - 4:45pm	PLS 1113

BIPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIPH899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI Biological Sciences Fall 2017

BISI688B **Special Topics in Biological Sciences; Bioethics**

Credits: 1 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subjects in the topics of Biological Sciences.

0101	Lisa Taneyhill Th 2:00pm - 4:00pm	Seats (Total: 30) ANS 0467

BISI701 **Science Teaching & Professional Development in Biology**

Credits: 1 Grading Method: Sat-Fail

Also offered as: ENTM701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701. Formerly: BISI688Z, CBMG688Z, BIOL701. Additional information: Priority in enrollment will be given to students in the BISI Graduate Program.

Provides graduate students in the biological sciences with the foundational knowledge to become better teaching assistants and gives them an introduction into the skills and tools that they need to develop as professional scientists and educators.

0101	Michelle Brooks Tu 6:00pm - 6:50pm	Seats (Total: 25) BPS 1208

BISI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

0201	Caren Chang Contact instructor or department for details.	Seats (Total: 5)
0245	Hector Corrada Bravo Contact instructor or department for details.	Seats (Total: 5)
0901	Steven Hutcheson Contact instructor or department for details.	Seats (Total: 5)

2080	Todd Cooke Contact instructor or department for details.	Seats (Total: 1)
2440	Sougata Roy Contact instructor or department for details.	Seats (Total: 5)
3100	William Lamp Contact instructor or department for details.	Seats (Total: 10)
7801	Jonathan Dinman Contact instructor or department for details.	Seats (Total: 5)

BISI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BMGT Business and Management Fall 2017

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

0101	Jeff Miller TuTh 12:30pm - 1:45pm	Seats (Total: 250) VMH 1524
FC01	Jeff Miller TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 80) TYD 0117

BMGT110F **Introduction to the Business Value Chain**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE

Restricted to Smith School's Smith Start (FPFF) students.

FP01	Ryan Cooper MW 9:30am - 10:45am	Seats (Total: 33) VMH 1311
FP02	Ryan Cooper MW 11:00am - 12:15pm	Seats (Total: 33) VMH 1311
FP03	Leland Gardner MW 2:00pm - 3:15pm	Seats (Total: 33) VMH 1415
FP04	Hugh Turner M 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 33) VMH 1336 ONLINE
FP05	Hugh Turner Tu 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 33) VMH 1336 ONLINE
FP06	Richard Hutchins TuTh 9:30am - 10:45am	Seats (Total: 33) VMH 1311
FP07	Richard Hutchins TuTh 11:00am - 12:15pm	Seats (Total: 33) VMH 1311
FP08	Kenneth Grimm MW 12:30pm - 1:45pm	Seats (Total: 33) ESJ 1309
FP09	Hugh Turner W 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 33) VMH 1336 ONLINE
FP10	Hugh Turner Th 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 33) VMH 1336 ONLINE
FP11	Hugh Turner F 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 33) VMH 1415 ONLINE

FP12	Hugh Turner F 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 33) VMH 1415 ONLINE	

BMGT190H **Introduction to Design and Quality**

Credits: 4 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Quest program. Also offered as: ENES190. Credit only granted for: BMGT190 or ENES190.

Exposes engineering and business students to the principles of total quality, using experiential team-learning and technology-aided approaches. The first of four courses in total quality.

Restricted to Quest Program students.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more informationon the Fearless Ideas Courses.

0101	Pamela Armstrong TuTh 12:30pm - 1:45pm W 7:00pm - 8:50pm	Seats (Total: 45) ESJ 2212 VMH 1412	 Discussion

BMGT210 **Foundations of Accounting for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Students pursuing a Smith School minor who have completed both BMGT220 and BMGT221 may substitute these courses for BMGT210. Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.

Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.

Restricted to General Business Minors

0101	Eugene Cantor MW 2:00pm - 3:15pm	Seats (Total: 60) SQH 1119
0201	Eugene Cantor MW 3:30pm - 4:45pm	Seats (Total: 60) SQH 1119

BMGT220 **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Open to all students with 24 credit hours completed.

0201	Progyan Basu MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 43) VMH 1212 VMH 1206	 Discussion
0202	Progyan Basu MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 43) VMH 1212 VMH 1206	 Discussion
0203	Progyan Basu MW 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 43) VMH 1212 VMH 1206	 Discussion
0204	Progyan Basu MW 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 43) VMH 1212 VMH 1206	 Discussion
0301	Progyan Basu MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 43) VMH 1212 VMH 1303	 Discussion
0302	Progyan Basu MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 43) VMH 1212 VMH 1303	 Discussion
0303	Progyan Basu MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 43) VMH 1212 VMH 1303	 Discussion
0304	Progyan Basu MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 43) VMH 1212 VMH 1303	 Discussion

0306	Progyan Basu MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 43) VMH 1212 VMH 1202	Discussion
0401	Progyan Basu MW 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 43) VMH 1212 VMH 1307	Discussion
0402	Progyan Basu MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 43) VMH 1212 VMH 1307	Discussion
0403	Progyan Basu MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 43) VMH 1212 VMH 1307	Discussion
0404	Progyan Basu MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 43) VMH 1212 VMH 1307	Discussion
0405	Progyan Basu MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 43) VMH 1212 VMH 1202	Discussion

BMGT220H **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Restricted to Honors students with 24 credit hours completed.

0101	Thomas Kelley MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1307	

BMGT221 **Principles of Accounting II**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Restricted to students with 24 credit hours completed.

0101	Gary Bulmash TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 38) VMH 1212 VMH 1335	 Discussion
0102	Gary Bulmash TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 38) VMH 1212 VMH 1335	 Discussion
0103	Gary Bulmash TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1335	 Discussion
0104	Gary Bulmash TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1335	 Discussion
0105	Gary Bulmash TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 38) VMH 1212 VMH 1335	 Discussion
0201	Gary Bulmash TuTh 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 38) VMH 1212 VMH 1336	 Discussion
0202	Gary Bulmash TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 38) VMH 1212 VMH 1336	 Discussion
0203	Gary Bulmash TuTh 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 38) VMH 1212 VMH 1336	 Discussion
0204	Gary Bulmash TuTh 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 38) VMH 1212 VMH 1336	 Discussion

0205	Gary Bulmash TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 38) VMH 1212 VMH 1336	 Discussion

BMGT221H **Principles of Accounting II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Course restricted to University Honors Studetns with 24 credit hours completed.

0101	Gary Bulmash TuTh 3:30pm - 4:45pm	Seats (Total: 35) VMH 1518	

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

0101	Erich Studer-Ellis MW 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1314	 Discussion
0102	Erich Studer-Ellis MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion

0103	Erich Studer-Ellis MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1314	Discussion
0104	Erich Studer-Ellis MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1314	Discussion
0105	Erich Studer-Ellis MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1314	Discussion
0106	Erich Studer-Ellis MW 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1524 VMH 1314	Discussion
0107	Erich Studer-Ellis MW 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1524 VMH 1314	Discussion
0201	Erich Studer-Ellis MW 12:30pm - 1:45pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0202	Erich Studer-Ellis MW 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0203	Erich Studer-Ellis MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0204	Erich Studer-Ellis MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1411	Discussion
0205	Erich Studer-Ellis MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion

0206	Erich Studer-Ellis MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion
0207	Erich Studer-Ellis MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 15) VMH 1524 VMH 1411	Discussion
0301	Erich Studer-Ellis MW 2:00pm - 3:15pm F 8:00am - 8:50am	Seats (Total: 30) VMH 1524 VMH 1418	Discussion
0302	Erich Studer-Ellis MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 23) VMH 1524 VMH 1418	Discussion
0303	Erich Studer-Ellis MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 21) VMH 1524 VMH 1418	Discussion
0304	Erich Studer-Ellis MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1418	Discussion
0305	Erich Studer-Ellis MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 23) VMH 1524 VMH 1418	Discussion
0306	Erich Studer-Ellis MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 26) VMH 1524 VMH 1418	Discussion
0307	Erich Studer-Ellis MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1524 VMH 1418	Discussion
0401	Liyi Gu TuTh 2:00pm - 3:15pm	Seats (Total: 30) TYD 1114	

BMGT230B Business Statistics

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Restricted to BMGT majors.

0102	Erich Studer-Ellis MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0104	Erich Studer-Ellis MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0105	Erich Studer-Ellis MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1314	 Discussion
0205	Erich Studer-Ellis MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0206	Erich Studer-Ellis MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0207	Erich Studer-Ellis MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 15) VMH 1524 VMH 1411	 Discussion
0302	Erich Studer-Ellis MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 7) VMH 1524 VMH 1418	 Discussion

0303	Erich Studer-Ellis MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 9) VMH 1524 VMH 1418	Discussion
0304	Erich Studer-Ellis MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 15) VMH 1524 VMH 1418	Discussion
0305	Erich Studer-Ellis MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 7) VMH 1524 VMH 1418	Discussion
0306	Erich Studer-Ellis MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 4) VMH 1524 VMH 1418	Discussion

BMGT230H **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Restricted to Honors students.

0101	Radu Lazar TuTh 9:30am - 10:45am	Seats (Total: 35) VMH 1336	

BMGT289A **Social Enterprise: Changing the World through Innovation and Transformative Action**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSSP, SCIS

0101	Le-Marie Thompson W 5:00pm - 7:40pm	Seats (Total: 60) TYD 1101

BMGT289B **How Do Innovators Think?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Credit will be granted for only one of the following: BMBT289B or HONR289P. Course will meet on occasional Monday evenings from 6:30-9:15pm for assessments and guest speaker presentations. Specific dates will be available by the start of the semester.

0101	Mark Wellman F 9:30am - 11:20am M 6:30pm - 9:15pm	Seats (Total: 50) CCC 1100 Location: TBA
0201	Mark Wellman Th 4:00pm - 5:50pm M 6:30pm - 9:15pm *This section is restricted to College Park Scholars in Business, Society and the Economy students.*	Seats (Total: 70) ESJ 0215 Location: TBA
0301	Mark Wellman F 11:30am - 1:20pm M 6:30pm - 9:15pm	Seats (Total: 60) CCC 1100 Location: TBA

BMGT289D **Frauds, Scams, and Thefts: What, How and Why?**

Credits: 3 | Grading Method: Regular | General Education: DSSP, SCIS

0101	David Weber MW 3:30pm - 4:45pm	Seats (Total: 60) ESJ 1202
0201	David Weber MW 5:00pm - 6:15pm	Seats (Total: 60) ESJ 2309

BMGT289E **Entrepreneurial Thinking for Non-Business Majors: How Not to Miss Great Opportunities Your Life Throws at You**

Credits: 3 | Grading Method: Regular | CORE: IE | General Education: DSSP, SCIS

0101	Jonathan Aberman MW 2:00pm - 3:15pm	Seats (Total: 60) MCB 1207

BMGT289I **Why Good Managers Make Bad Decisions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSSP, SCIS

Why do smart managers make flawed decisions? Why do managers keep believing they have made the right choice, even with disastrous results staring them in the face? Why Good Managers Make Bad Decisions will address how evidence-based management and other decisionmaking tools can be used to uncover hidden assumptions in the corner offices of great corporations.

0101	Jeff Miller MW 3:30pm - 4:45pm	Seats (Total: 240) VMH 1524
FC01	Jeff Miller TuTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) SQH 1121

BMGT298B **Special Topics in Business and Management; Introduction to Product Design**

Credits: 1 | Grading Method: Regular, Pass-Fail

Introductory special topics in business and management.

0101	Pamela Armstrong Th 4:00pm - 5:15pm	Seats (Total: 20) ESJ 2101

BMGT298F **Special Topics in Business and Management; Global Mindset Colloquium**

(Perm req)

Credits: 1 | Grading Method: Regular

Introductory special topics in business and management.

Restricted to students in the Global Mindset program.

0101	Christopher Olson, Kristin LaRiviere F 10:00am - 10:50am	Seats (Total: 30) VMH 2505
0201	Kristin LaRiviere, Christopher Olson F 11:00am - 11:50am	Seats (Total: 30) VMH 2505

BMGT298R **Special Topics in Business and Management; Quantitative Methods for Business**

Credits: 3 Grading Method: Regular

Introductory special topics in business and management.

Contact department for information to register for this course.

BMGT300 **Information Systems for Non Business Majors**

Credits: 2 Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT301; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: BMGT300 or BMGT301. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT301 for General Business or Innovation and Entrepreneurship minor students only.

Introduces students to the transformative potential of emerging and existing information technologies and their impacts on the structure and competitive dynamics of various industries.

Restricted to General Business Minors.

BL01	Sunil Mithas	Seats (Total: 80)
	Meets August 28, 2017 - October 18, 2017	
	Th 7:00pm - 9:40pm	VMH 1212
	Class time/details on ELMs	ONLINE
	Smith Minor courses in subterm 1 will have their exam period on Monday, Oct. 17, and Tuesday, Oct. 18.	

BMGT301 **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to BMGT majors with 53 credits completed.

0101	Zeinab Karake MW 9:30am - 10:45am	Seats (Total: 60) VMH 1524
0201	Sunil Mithas MW 3:30pm - 4:45pm	Seats (Total: 60) VMH 1303
0301	Zeinab Karake TuTh 11:00am - 12:15pm	Seats (Total: 60) VMH 1412
0401	Zeinab Karake TuTh 12:30pm - 1:45pm	Seats (Total: 60) VMH 1412
0501	Wei Chen MW 12:30pm - 1:45pm	Seats (Total: 60) VMH 1333
0601	Wei Chen MW 11:00am - 12:15pm	Seats (Total: 60) VMH 1303
0701	Wei Chen TuTh 2:00pm - 3:15pm	Seats (Total: 60) VMH 1412

BMGT301F **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to second year students in the Smith School's Smith Start program (FPFF).

FP01	Zeinab Karake MW 12:30pm - 1:45pm	Seats (Total: 65) VMH 1412

FP02	Zeinab Karake MW 8:00am - 9:15am	Seats (Total: 65) VMH 1412

BMGT302 Designing Applications for Business Analytics

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

Provides an introduction to structured programming with business applications. Programming logic and data structures are introduced. The course especially emphasizes hands-on exercises using Excel macros and Visual Basic for Applications (VBA), and covers business functions and analytics.

Restricted to BMGT majors with 53 credit hours completed. Not open to Computer Science Majors.

0101	Peng Huang TuTh 3:30pm - 4:45pm	Seats (Total: 32) VMH 2203
0201	Peng Huang TuTh 9:30am - 10:45am	Seats (Total: 32) VMH 2203
0301	Wei Chen MW 9:30am - 10:45am *Students learn to design and program Macro in Excel using Visual Basic for Applications (VBA) to support business analytics. Fundamental programming principles are also introduced using the Visual Basic programming language.*	Seats (Total: 32) VMH 2203

BMGT302F Designing Applications for Business Analytics

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

Provides an introduction to structured programming with business applications. Programming logic and data structures are introduced. The course especially emphasizes hands-on exercises using Excel macros and Visual Basic for Applications (VBA), and covers business functions and analytics.

Restricted to students in the Smith School's TBT Fellows program.

FP01	Peng Huang TuTh 11:00am - 12:15pm	Seats (Total: 29) VMH 2203

BMGT310 **Intermediate Accounting I**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.

0101	Leslie Mostow MW 11:00am - 12:15pm *Restricted to Accounting and Finance majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1411
0201	Musa Subasi TuTh 2:00pm - 3:15pm *Restricted to Accounting and Finance majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1518
0301	Musa Subasi TuTh 12:30pm - 1:45pm *Restricted to Accounting and Finance majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1411
0401	Mary Keim MW 3:30pm - 4:45pm *Restricted to Accounting and Finance majors with 53 credit hours completed.*	Seats (Total: 35) VMH 1415
SG91	Mary Keim TuTh 9:30am - 10:45am *Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 2052
SG92	Mary Keim TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors majoring in Accounting. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 2052

BMGT311 **Intermediate Accounting II**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310.

Continuation of BMGT310.

0101	Oliver Kim TuTh 11:00am - 12:15pm *Restricted to accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1415
0201	Stephen Brown MW 9:30am - 10:45am *Restricted to accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1206
0301	Oliver Kim TuTh 3:30pm - 4:45pm *Restricted to accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1202
SG91	Samuel Handwerger TuTh 2:00pm - 3:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 30) BLD2 3012

BMGT313 Financial Statement Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

Restricted to Accounting and Finance majors with 53 credits completed.

0101	Brent Solomon TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1418

BMGT313F Financial Statement Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

FP01	Brent Solomon	Seats (Total: 35)
	TuTh 9:30am - 10:45am	VMH 1202
	Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).	
FP02	Brent Solomon	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	VMH 1202
	Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).	

BMGT321 **Managerial Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost budgeting, responsibility accounting and relevant costs for decision-making.

0201	Sebahattin Demirkan	Seats (Total: 35)
	MW 11:00am - 12:15pm	VMH 1202
	Restricted to BMGT majors with 53 credit hours completed.	
0301	Sebahattin Demirkan	Seats (Total: 35)
	MW 3:30pm - 4:45pm	VMH 1418
	Restricted to BMGT majors with 53 credit hours completed.	
0401	Sebahattin Demirkan	Seats (Total: 35)
	MW 12:30pm - 1:45pm	VMH 1202
	Restricted to BMGT majors with 53 credit hours completed.	
SG91	Nicholas Zemil	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BLD2 3012
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

SG92	Samuel Handwerger TuTh 12:30pm - 1:45pm	Seats (Total: 40) BLD2 3012
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT323 **Taxation of Individuals**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions. Property coverage includes the tax consequences of sales and dispositions of investment and business assets. Both tax planning and compliance issues are covered.

0101	Howard Weiner MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1206
	Restricted to Accounting majors with 53 credit hours completed.	
0201	Jeffrey Milton MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1206
	Restricted to Accounting majors with 53 credit hours completed.	
0301	Leslie Mostow MW 9:30am - 10:45am	Seats (Total: 35) VMH 1202
	Restricted to Accounting majors with 53 credit hours completed.	
0401	Jeffrey Milton MW 12:30pm - 1:45pm	Seats (Total: 35) VMH 1411
	Restricted to Accounting majors with 53 credit hours completed.	

BMGT326 **Accounting Systems**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT201 or BMGT301).

A study of accounting systems and computer and communications technology.

0101	James McKinney TuTh 11:00am - 12:15pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1336
0201	James McKinney TuTh 12:30pm - 1:45pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1336
0301	James McKinney TuTh 2:00pm - 3:15pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 35) VMH 1336

BMGT332 **Quantitative Models for Management Decisions**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department.

The aim of this course is to introduce management science techniques for informed decision-making that can be applied in spreadsheet models to assist in the decision-analysis process. Models include Linear Programming, Transportation and Assignment problems, network flow models, Integer and non-linear programming, Simulation and Decision Trees.

Restricted to BMGT majors and Quest students with 53 credit hours completed.

0101	Kazim Ruhi TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1335
0201	Kazim Ruhi TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1202
0301	Kazim Ruhi TuTh 5:00pm - 6:15pm	Seats (Total: 45) VMH 1336

BMGT340 **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

BL01	Karen Hallows MW 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 60) VMH 1520 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL02	Michael Padhi MW 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 60) VMH 1330 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL03	Michael Padhi MW 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 50) VMH 1412 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL04	Michael Padhi MW 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 60) VMH 1412 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL05	Karen Hallows TuTh 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 60) VMH 1524 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL06	Karen Hallows TuTh 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) VMH 1412 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	

BL07	Karen Hallows TuTh 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 60) VMH 1303 ONLINE
	Restricted to BMGT majors with 53 credit hours completed. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
SG91	Michael Padhi TuTh 11:00am - 12:15pm	Seats (Total: 60) BLD3 3202
	Restriced to BMGT-Shady Grove Juniors majoring in Accounting and Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Michael Padhi TuTh 12:30pm - 1:45pm	Seats (Total: 60) BLD3 3202
	Restricted to BMGT-Shady Grove Juniors majoring in Accounting and Entrepreneurhip. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG93	Michael Padhi TuTh 2:00pm - 3:15pm	Seats (Total: 60) BLD3 3202
	Restricted to BMGT-Shady Grove Juniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT undergraduate students are not eligible to enroll at Shady Grove.	

BMGT340F **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to students in the Smith School's Sophomore Wall Street Fellows Program.

FP01	David Kass MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1411

BMGT340H **Business Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	Vojislav Maksimovic	Seats (Total: 35)
	MW 5:00pm - 6:15pm	VMH 1307

BMGT340N **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

BL03	Michael Padhi	Seats (Total: 10)
	MW 11:00am - 12:15pm Class time/details on ELMs	VMH 1412 ONLINE

BMGT341 **Financial Markets**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in BMGT340. Formerly: BMGT498G.

Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.

Prerequisite: BMGT340. Restricted to Finance majors with 60 credit hours completed.

0101	Julie Pavlovsky	Seats (Total: 45)
	TuTh 9:30am - 10:45am	VMH 1411

0201	Julie Pavlovsky TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1411
0301	Julie Pavlovsky TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1411

BMGT343 **Investments**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT343 or ECON435. Additional information: This course cannot be used to fulfill any requirements for majors in Economics.

An introduction to financial investments. Topics include: securities and securities markets; investment risks, returns and constraints; portfolio policies; and institutional investment policies.

Restricted to Finance majors with 60 credit hours completed.

0101	Ryan Guttridge MW 12:30pm - 1:45pm	Seats (Total: 45) VMH 1418
0201	Kenneth Fuller TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1418
0301	Kenneth Fuller TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1418
0401	Ryan Guttridge MW 11:00am - 12:15pm	Seats (Total: 45) VMH 1336
0501	Ryan Guttridge MW 5:00pm - 6:15pm	Seats (Total: 45) VMH 1303

BMGT345 **Foundations of Financial Management for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. BMGT340 may substitute for BMGT345.

Provides students an overview of financial management. Students will understand how to accomplish the firm goal of maximizing shareholder value, learn how to conduct a financial statement analysis, and recognize its various elements, including profitability, credit risk, revenue, assets, liability, and cash flows. Understand the relationship between risk and return and how it impacts investment and corporate decisions.

Restricted to General Business Minors.

0101	Karen Hallows	Seats (Total: 108)
	MW 3:30pm - 4:45pm Class time/details on ELMs	ASY 2203 ONLINE

BMGT349F **Private Equity and Venture Capital**

Credits: 3 Grading Method: Regular

The New Markets Private Equity/Venture Capital Clinic allows students to gain professional experience commensurate with that of an Associate in a Venture Capital Firm. Students are trained to buy, own, actively manage and sell high growth technology companies in private transactions. The class format includes: lectures; presentations from guest speakers, including the regions leading CEOs, private equity and service providers; and a series of facilitated exercises that simulate buying, owning and selling businesses. The course exposes students to real life activities covering the entire deal process from market research, diligence, selection, negotiation valuing, and structuring an investment, as well as management, growth and exit of portfolio companies.

Restricted to students in the Private Equity and Venture Capital Fellows program.

FP01	Mark Grovic	Seats (Total: 13)
	Tu 12:30pm - 3:20pm Contact instructor or department for details.	VMH 2505

BMGT350 **Marketing Principles and Organization**

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

BL01	Roxanne Lefkoff	Seats (Total: 60)
	M 9:30am - 10:45am Class time/details on ELMs	VMH 1520 ONLINE
	Restricted to BMGT majors with 53 credit hours completed.	

BL02	Roxanne Lefkoff M 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
BL03	Roxanne Lefkoff M 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
BL04	Marjorie Bonavia W 9:30am - 10:45am Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 50) VMH 1520 ONLINE
BL05	Marjorie Bonavia W 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
BL06	Marjorie Bonavia W 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303 ONLINE
BL07	Roxanne Lefkoff Tu 11:00am - 12:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1212 ONLINE
SG91	Henry Boyd MW 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 60) BLD3 3202

SG92	Henry Boyd	Seats (Total: 60)
	MW 11:00am - 12:15pm	BLD3 3202
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG93	Henry Boyd	Seats (Total: 60)
	MW 2:00pm - 3:15pm	BLD3 3202
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT350H **Marketing Principles and Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	Roxanne Lefkoff	Seats (Total: 35)
	TuTh 9:30am - 10:45am	VMH 1415

BMGT350N **Marketing Principles and Organization**

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to agricultural and resource economics (0111C) and horticulture (0107C) majors with 53 credit hours completed.

BL04	Marjorie Bonavia W 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 10) VMH 1520 ONLINE

BMGT353 **Retail Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220 and BMGT350.

Planning and implementing retail marketing strategy. Store and nonstore (catalog, internet) retailing. Evaluation of how environmental trends in the consumer market, competition, the economy and technology affect retail strategy in the U.S. and global market.

Restricted to BMGT majors with 60 credit hours completed.

0101	Jie Zhang TuTh 2:00pm - 3:15pm	Seats (Total: 35) VMH 1206
0201	Jie Zhang TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1206

BMGT355 **Foundations of Marketing for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. BMGT350 may substitute for BMGT355.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to General Business Minors. Blended.

BL01	Rosellina Ferraro Tu 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 60) SQH 1120 ONLINE
BL02	Rosellina Ferraro Th 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 60) SQH 1120 ONLINE

BMGT360 **Strategic Management of Human Capital**

Credits: 3 Grading Method: Regular

Provides students with the basic knowledge needed to help organizations attract, select, develop, engage, evaluate, and retain talent. Topics covered may include strategic HRM, the role of globalization, legal issues in HRM, work analysis, HR planning, recruitment, personnel selection, performance management and appraisal, training and development, career development, compensation systems, motivating and rewarding performance, labor relations, and employee health and safety.

0101	Jeffrey Kudisch MW 2:00pm - 3:15pm *Open to all students with 53 credit hours completed.*	Seats (Total: 60) VMH 1212
0201	Jeffrey Kudisch MW 3:30pm - 4:45pm *Open to all studnets with 53 credit hours completed.*	Seats (Total: 60) VMH 1212
SG91	Jeffrey Kudisch TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 2062

BMGT361 **Entrepreneurship: Starting and Managing the Entrepreneurial Venture**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must be in the Smith Entrepreneurship Fellows Program; and must not have completed BMGT461. Credit only granted for: BMGT261, BMGT361, or BMGT461. Formerly: BMGT261.

Focuses on the early development of a new venture. Topics include: idea-getting, opportunity recognition, feasibility studies, new venture financing and startup. Guests speakers and practicing entrepreneurs offer real world guidance. Restricted to students admitted to the Smith Entrepreneurship Fellows Program.

SG91	Oliver Schlake Tu 2:00pm - 4:40pm *Restricted to BMGT-Shady Grove Juniors majoring in Entrepreneurship. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 3062

BMGT363 **Leadership and Teamwork in Organizations**

Credits: 3 Grading Method: Regular

Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.

Restricted to Management majors with 53 credit hours completed.

0101	Gosia Langa Basit TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 1333

BMGT364 Managing People and Organizations

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

0101	Trevor Foulk MW 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 55) VMH 1303
0201	Trevor Foulk MW 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
0301	Shuye Lu MW 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1524
0401	Nicole Coomber TuTh 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
0501	Nicole Coomber TuTh 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
0601	Gosia Langa Basit M 7:00pm - 9:40pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1412

0701	Gosia Langa Basit Tu 7:00pm - 9:40pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 60) VMH 1303
SG91	Gregory Marr MW 8:00am - 9:15am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 60) BLD2 2062
SG92	Gregory Marr MW 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 60) BLD2 2062
SG93	Gregory Marr MW 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 60) BLD2 2062

BMGT364M Managing People and Organizations

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to General Business Minors

BL01	Hannah Weiser M 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 120) ESJ 2208 ONLINE

BMGT364N Managing People and Organizations

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to agricultural and resource economics (0111C) and dietetics (1307D) majors with 53 credit hours completed.

0101	Trevor Foulk	Seats (Total: 5)
	MW 8:00am - 9:15am	VMH 1303

BMGT365 Entrepreneurial Finance and Private Equity

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher. Credit only granted for: BMGT365, ENES466 or HLMN471.

Studies venture capital and private equity using a combination of cases lectures and guest speakers. Addresses how venture capitalists provide capital to start-up firms in growing industries and how private equity markets provide capital to help established medium-sized firms (often family businesses) grow and restructure. Focuses on how financial, legal, and economic issues are dealt with in the financial contracts between venture capitalists and their limited partners and between capitalists (or other private equity investors) and the firms in which they invest.

0101	Instructor: TBA	Seats (Total: 36)
	Contact instructor or department for details.	

BMGT366 Growth Strategies for Emerging Companies

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher.

Offers practical management tools that are needed to build a new venture into a significant enterprise. The competencies, strategies and structures of successful high performance businesses are studied through cases, videos and guest lecturers. Topics include leadership, internal growth strategies, merger, acquisition and franchising.

Restricted to Innovation and Entrepreneurship Minors and Management Majors.

0101	David Kirsch	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SHM 2102

BMGT367 Career Search Strategies in Business

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.

0101	Michael Poerksen, Erin Saddler M 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 54) VMH 1212
0201	Susan Powell, Erin Saddler Tu 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 54) VMH 1303
0301	Erin Saddler, Lawrence Silver W 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 54) VMH 1212
0401	Erin Saddler, Michael Poerksen M 6:00pm - 6:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 54) VMH 1212
0501	Erin Saddler, Michelle Doan W 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 45) VMH 1418
SG91	Erin Saddler, Elmer Cherry W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majroing in Entrepreneurship and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.*	Seats (Total: 60) BLD2 2032
SG92	Erin Saddler, Katherine Bosch W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 45) BLD2 3052

SG93	Meghan Houston, Erin Saddler W 5:00pm - 5:50pm	Seats (Total: 45) BLD2 2062
	Restricted to BMGT-Shady Grove Juniors majroing in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.	

BMGT370 **Introduction to Transportation**

Credits: 3 Grading Method: Regular

An overview of the transportation field with an emphasis on freight movements from the perspective of both providers of capacity and users of freight services. Examines the characteristics of the freight modes and the role of each mode as a major component of logistics and supply chain management. Explores the economics, energy use, and finances of each mode as well as the impact of government policies on each mode's future. Discussion of infrastructure and capacity needs of the transportation system and its ability to support the economy.

Restricted to BMGT majors with 53 credit hours completed.

0101	Geoffrey Milsom MW 8:00am - 9:15am	Seats (Total: 45) VMH 1307
0201	Geoffrey Milsom MW 9:30am - 10:45am	Seats (Total: 45) VMH 1307

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

Restricted to BMGT majors with 53 credit hours completed.

0101	Humberto Coronado TuTh 9:30am - 10:45am	Seats (Total: 40) VMH 1206
0201	Humberto Coronado TuTh 11:00am - 12:15pm	Seats (Total: 40) VMH 1206

0301	Leland Gardner MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 2505
0401	Humberto Coronado TuTh 12:30pm - 1:45pm	Seats (Total: 40) VMH 1311

BMGT375 **Supply Chain Management for Non Business Majors**

Credits: 2 Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT372; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT375 or BMGT372. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT372 for General Business minor or Innovation and Entrepreneurship minor students only.

Examines management decision-making in the design, implementation and coordination of a firm's supply chain activities. Topics include transportation management, warehousing, materials handling, inventory management, and order fulfillment.

Restricted to General Business Minors.

BL01	Hugh Turner **Meets October 19, 2017 - December 11, 2017** MW 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 105) TWS 0310 ONLINE

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

0101	William McClenahan TuTh 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 50) VMH 1333
0201	T Anenson MW 3:30pm - 4:45pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 60) VMH 1412

0301	T Anenson	Seats (Total: 60)
	MW 5:00pm - 6:15pm	VMH 1412
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0401	T Anenson	Seats (Total: 60)
	MW 2:00pm - 3:15pm	VMH 1412
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0501	William McClenahan	Seats (Total: 60)
	TuTh 9:30am - 10:45am	VMH 1333
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0601	Jennifer Gershberg	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	VMH 1303
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
0701	Richard Daniels	Seats (Total: 60)
	TuTh 3:30pm - 4:45pm	VMH 1303
	Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.	
SG91	Jennifer Gershberg	Seats (Total: 60)
	MW 9:30am - 10:45am	BLD3 4202
	Restricted to BMGT-shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Jennifer Gershberg	Seats (Total: 60)
	MW 11:00am - 12:15pm	BLD3 4202
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

SG93	Justin Reyna	Seats (Total: 60)
	MW 12:30pm - 1:45pm	BLD3 4202
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT380N **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

0101	William McClenahan	Seats (Total: 10)
	TuTh 8:00am - 9:15am	VMH 1333

BMGT382 **Marketing and Innovation for Entrepreneurs**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT352. Credit only granted for: BMGT352 or BMGT382. Additional information: Course will not satisfy a Marketing major requirement.

Marketing and Innovation are two critically important activities that determine success in any business venture. This course will focus on understanding the fundamentals of marketing and innovation from the perspective of an entrepreneur. At a broad level, we will apply proven marketing frameworks (STP and 4Ps) to effectively deliver innovation in an entrepreneurial context.

Restricted to Innovation and Entrepreneurship Minors.

0101	Yogesh Joshi	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SQH 1120

BMGT385 **Operations Management**

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT385 or ENME426.

Studies the design, management and improvement of a firm's processes an systems for creation and delivery of products and services. Includes strategic and operational views of supply chain, product development, and capacity analysis, highlighting the competitive advantages that operations management can provide the firm.

Restricted to BMGT majors and QUEST program students with 53 credit hours completed and to Business Process Fellows.

0101	Wedad Elmaghraby TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1307

BMGT390H **Systems Thinking for Managerial Decision Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190; and must be a QUEST student. Also offered as: ENES390. Credit only granted for: BMGT390, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST program students. Also offered as ENES390H.

0101	Gerald Suarez MW 2:00pm - 3:15pm	Seats (Total: 45) ESJ 2309

BMGT392 **Introduction to International Business Management**

Credits: 3 Grading Method: Regular

Prerequisite: ECON200.

A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.

Restricted to BMGT majors with 53 credit hours completed.

0101	Wilbur Chung TuTh 3:30pm - 4:45pm	Seats (Total: 30) VMH 1418
0201	Wilbur Chung TuTh 5:00pm - 6:15pm	Seats (Total: 30) VMH 1418

BMGT397 **Mentoring Design and Quality Teams**

Credits: 3 Grading Method: Regular

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

Restricted to QUEST program students. Also offered as ENES397.

0101	Pamela Armstrong W 6:00pm - 8:50pm	Seats (Total: 16) VMH 1415

BMGT398 **Individual Study in Business and Management**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398A **Individual Study in Business and Management; Internship**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Restricted to Smith School of Business students. Interested students should contact Erin Fields Saddler (esaddler@rhsmith.umd.edu) for details and permission.

0101	Erin Saddler, Jeffrey Kudisch Contact instructor or department for details.	Seats (Total: 25)
SG91	Jeffrey Kudisch, Erin Saddler Contact instructor or department for details.	Seats (Total: 10)

BMGT398C **Individual Study in Business and Management; Undergraduate Teaching Scholars Training**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restricted to Accounting Teaching Scholars (FPTS).

0101	Progyan Basu Contact instructor or department for details.	Seats (Total: 19)

BMGT398L **Individual Study in Business and Management; Innovo Consulting Practicum: Innovate Business Processes**

(Perm req)

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398T **Individual Study in Business and Management; The External Transfer Student in Smith**

(Perm req)

Credits: 1 Grading Method: Regular

Restricted to incoming Fall Smith School External Transfer students only.

0101	Evan Riddle **Meets August 28, 2017 - October 17, 2017** Tu 5:00pm - 6:35pm	Seats (Total: 35) VMH 1411	

BMGT398W **Individual Study in Business and Management; Junior Wall Street Fellows.**

(Perm req)

Credits: 1 Grading Method: Regular

Restricted to students in the Smith School's Junior Wall Street Fellows programs.

FP01	Julie Pavlovsky Tu 3:30pm - 4:45pm	Seats (Total: 24) VMH 1307	

BMGT402 **Database Systems**

Credits: 3 Grading Method: Regular

Recommended: BMGT302. Credit only granted for: INST327 or BMGT402.

The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.

Restricted to BMGT majors and Business Analytics minors with 72 credit hours completed.

0101	Woei-Jyh Lee TuTh 2:00pm - 3:15pm Tu 5:00pm - 5:50pm	Seats (Total: 35) VMH 2203 VMH 2203	 Lab
0201	Lanfei Shi MW 3:30pm - 4:45pm Tu 6:00pm - 6:50pm	Seats (Total: 35) VMH 2203 VMH 2203	 Lab

0301	Woei-Jyh Lee TuTh 12:30pm - 1:45pm Tu 7:00pm - 7:50pm	Seats (Total: 35) VMH 2203 VMH 2203	 Lab
0401	Woei-Jyh Lee MW 8:00am - 9:15am Tu 8:00pm - 8:50pm	Seats (Total: 35) VMH 2203 VMH 2203	 Lab

BMGT403 **Systems Analysis and Design**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or students who have taken courses with comparable content may contact the department. Recommended: BMGT302.

Techniques and tools applicable to the analysis and design of computer-based information systems. System life cycle, requirements analysis, logical design of databases and performance evaluation. Emphasis on case studies. Project required that involves the design, analysis and implementation of an information system.

Restricted to BMGT majors with 72 credit hours completed.

0101	Hassan Ibrahim MW 11:00am - 12:15pm	Seats (Total: 36) VMH 2203
0201	Hassan Ibrahim Tu 7:00pm - 9:40pm	Seats (Total: 24) VMH 3522
0301	Hassan Ibrahim MW 12:30pm - 1:45pm	Seats (Total: 36) VMH 2203
0401	Hassan Ibrahim M 7:00pm - 9:40pm	Seats (Total: 36) VMH 2203

BMGT406 **Developing Applications for the Web and Social Media**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT302. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: INST377 or BMGT406.

The design and development of Web applications and the underlying platforms and standards for Web application development will be covered. It will examine the phenomenon of social media, social networking and crowdsourcing and understand their use within organizations.

Restricted to BMGT majors with 72 credit hours completed.

0101	Louiqa Raschid MW 5:00pm - 6:50pm	Seats (Total: 20) VMH 2203

BMGT407 **Information Systems Projects**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT403. Restriction: Senior standing.

Senior capstone course for the decision and information sciences major. Collected knowledge from the DIS courses and application to significant problems of size and complexity. State-of-the-art research ideas and current business and industrial practices in information systems.

Restricted to Information Systems majors with 86 credit hours completed.

0101	Hassan Ibrahim MW 2:00pm - 3:15pm	Seats (Total: 30) VMH 2203
0201	Hassan Ibrahim W 7:00pm - 9:40pm	Seats (Total: 30) VMH 2203

BMGT408E **Emerging Topics in Information Systems; Big Data and Artificial Intelligence for Business**

Credits: 3 Grading Method: Regular

Selected advanced topics covering emerging developments in the field of decision and information technologies.

Prerequisite: BMGT402. Restricted to BMGT majors with 72 credit hours completed.

0101	Weiguang Wang, Guodong Gao MW 11:00am - 12:15pm	Seats (Total: 25) VMH 1520

BMGT411 **Ethics and Professionalism in Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311. Restriction: Must be in Accounting program.

Analysis and discussion of issues relating to ethics and professionalism in accounting.

Restricted to Accounting majors with 86 credit hours completed.

0101	David Weber MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1307
0201	Sandra Rose MW 12:30pm - 1:45pm	Seats (Total: 35) VMH 1307
0301	Sandra Rose MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1311

BMGT417 **Taxation of Corporations, Partnerships and Estates**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of corporations using the life-cycle approach-formation, operation, assessment, merger, reorganization and liquidation. Overviews of pass-through entities - partnerships and s-corporations -using the life-cycle approach, and the tax consequences of wealth transfers by individuals - gift and estate taxation. Both tax planning and compliance issues are addressed.

Restricted to Accounting majors with 84 credit hours completed.

0101	Peter Ford MW 5:00pm - 6:15pm	Seats (Total: 40) VMH 1411

BMGT422 **Auditing Theory and Practice**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310; and must have completed or be concurrently enrolled in BMGT311.

A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests and report forms and opinions.

0101	James McKinney TuTh 3:30pm - 4:45pm *Restricted to Accounting majors.*	Seats (Total: 35) VMH 1206
0201	James McKinney TuTh 5:00pm - 6:15pm *Restricted to Accounting majors.*	Seats (Total: 35) VMH 1206

0301	Mary Keim MW 12:30pm - 1:45pm *Restricted to Accounting majors.*	Seats (Total: 35) VMH 1206
SG91	Rebecca Martin TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 40) BLD3 4220
SG92	Rebecca Martin TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 40) BLD3 4220

BMGT430 **Data Modeling in Business**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or permission of BMGT-Robert H. Smith School of Business.

Explores the role of statistical models in business analytics to drive managerial decision-making and improve performance through the use of relevant data-motivated examples. Topics include regression models (both simple and multiple regression, as well as logistic regression for binary data), model validation, variable transformation, variable selection, discriminant analysis, and forecasting. These topics are modeled using state-of-the-art data analytics software.

Restricted to BMGT majors with 84 credit hours completed or students in the Business Analytics minor .

0101	Radu Lazar TuTh 5:00pm - 6:15pm	Seats (Total: 55) VMH 1335

BMGT431 **Data Analytics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT430.

An introduction to the tools and techniques that are central to the analysis of abundant data that is being collected in many forms including web traffic, social network data, and reviews and comments on websites.

Restricted to Business Analytics minors or OM majors.

0101	Radu Lazar TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1524

BMGT434 **Analytics Consulting: Cases and Projects**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT332; and (MATH120 or MATH140; or must have completed MATH220). Or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

This course assumes that students have already been introduced to the concepts and techniques of operations research/business analytics (OR/BA). Published papers, short cases, and projects in OR/BA will be analyzed and discussed in a thoughtful way, taking into account the soft (people-related) issues and the hard (mathematical/optimization) issues.

Restricted to BMGT majors, QUEST students, and Business Analytics minors minors with 72 credit hours completed.

0101	Bruce Golden	Seats (Total: 40)
	MW 2:00pm - 3:15pm	VMH 1206

BMGT435 **Business Process Simulation**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Develop and plan simulation studies, build simulation models with special purpose software, analyze and interpret the results. Extensive use of applications and real-world examples. The emphasis is on model formulation and the interpretation of results, rather than mathematical theory.

Restricted to BMGT majors or Business Analytics minors with 60 credits completed.

0101	Kazim Ruhi	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	VMH 1336

BMGT438A **Special Topics in Operations Management; Applied Quantitative Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in operations management.

Course restricted to QUEST students. Also offered as ENES489A. Credit granted for BMGT438A or ENES489A.

0101	David Ashley	Seats (Total: 20)
	M 5:00pm - 7:40pm	VMH 1415

BMGT440 **Advanced Financial Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

Restricted to BMGT majors with 68 credit hours completed.

0101	Elinda Kiss MW 9:30am - 10:45am	Seats (Total: 47) VMH 1335
0201	David Kass TuTh 2:00pm - 3:15pm	Seats (Total: 47) VMH 1335
0301	David Kass TuTh 3:30pm - 4:45pm	Seats (Total: 47) VMH 1335
0401	Elinda Kiss MW 11:00am - 12:15pm	Seats (Total: 48) VMH 1335
0501	David Kass TuTh 11:00am - 12:15pm	Seats (Total: 47) VMH 1303

BMGT443 **Applied Equity Analysis and Portfolio Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343.

Study and application of the concepts, methods, models, and empirical findings to the analysis, valuation and selection of securities, especially common stock.

Restricted to BMGT majors with 84 credit hours completed.

0101	Joseph Perfetti MW 11:00am - 12:15pm	Seats (Total: 45) VMH 3505
0201	Joseph Perfetti MW 2:00pm - 3:15pm	Seats (Total: 45) VMH 3505

0301	Joseph Perfetti MW 3:30pm - 4:45pm	Seats (Total: 45) VMH 3505
0401	Joseph Perfetti MW 12:30pm - 1:45pm	Seats (Total: 45) VMH 3505

BMGT444 **Futures and Options Contracts**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343. Credit only granted for: BMGT444 or MATH424.

The institutional features and economic rationale underlying markets in futures and options. Hedging, speculation, structure of futures prices, interest rate futures, efficiency in futures markets and stock and commodity options.

Restricted to Finance majors with 84 credit hours completed.

0101	Dilip Madan M 7:00pm - 9:40pm	Seats (Total: 60) VMH 1330

BMGT445 **Banking and Financial Institutions**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Recommended: ECON330 or BMGT341.

Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.

Restricted to Finance majors with 84 credit hours completed.

0101	Elinda Kiss MW 2:00pm - 3:15pm	Seats (Total: 51) VMH 1335
0201	Elinda Kiss MW 3:30pm - 4:45pm	Seats (Total: 51) VMH 1335

BMGT446 **International Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Financial management from the perspective of the multinational corporation. Topics covered include the organization and functions of foreign exchange and international capital markets, international capital budgeting, financing foreign trade and designing a global financing strategy. Emphasis of the course is on how to manage exchange and political risks while maximizing benefits from global opportunity sets faced by the firm.

Restricted to Finance and International Business majors with 72 credit hours completed.

0101	James Seward TuTh 9:30am - 10:45am	Seats (Total: 45) VMH 1307
0201	Stefano Collina Th 7:00pm - 9:40pm	Seats (Total: 45) VMH 1206
0301	William MacDonald TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 1202

BMGT448G **Special Topics in Finance; Quantitative Financial Analysis**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT230 and BMGT340. Pre-or Co-requisite: BMGT343. Restricted to Quantitative Finance Fellows.

FP01	Jinming Xue TuTh 5:00pm - 6:15pm	Seats (Total: 35) VMH 3505

BMGT448L **Special Topics in Finance; Hedge Fund Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT340. Restricted to Finance majors with 72 credit hours completed.

0101	Kenneth Brodkowitz TuTh 11:00am - 12:15pm	Seats (Total: 45) VMH 3505
0201	Kenneth Brodkowitz TuTh 12:30pm - 1:45pm	Seats (Total: 45) VMH 3505

BMGT449F **Investment Fund Management: Lemma Senbet Fund**

Credits: 3 Grading Method: Regular

The Lemma Senbet Fund is a year-long, advanced finance course available to undergraduate finance majors in their senior year. Ten to twelve students will be selected in the spring of their junior year to participate on the fund, two as portfolio managers and eight to ten as equity analysts. The course provides students with the opportunity to apply what they have learned in finance classes to actual investment decisions, through researching real companies and managing a portfolio of real money.

Restricted to Lemma Senbet Fund Fellows (FPSF).

FP01	Sarah Kroncke	Seats (Total: 12)
	TuTh 10:00am - 11:50am	VMH 2509

BMGT450 Integrated Marketing Communications

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT354 or BMGT450. Formerly: BMGT354.

In-depth study of coordinated marketing activities including advertising, sales promotion, Internet marketing, direct marketing and personal selling. Emphasizes strategic planning to effectively use these promotional tools to communicate with customers and meet marketing goals. Blends theory and current practice to provide managerial orientation.

Restricted to BMGT majors with 60 credit hours completed.

0101	Christine Schaaf	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1411

BMGT451 Consumer Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Recommended: PSYC100; and PSYC221.

Identifying buyer behavior concepts relevant to a specific marketing problem so that appropriate marketing decisions can be made. Conceptual frameworks are drawn from psychology, sociology, economics, and other social sciences to aid in understanding the behavior of ultimate and industrial buyers.

Restricted to Marketing majors with 68 credit hours completed.

0101	Yajin Wang	Seats (Total: 38)
	MW 12:30pm - 1:45pm	VMH 1415

0201	Yajin Wang MW 9:30am - 10:45am	Seats (Total: 38) VMH 1415
0301	Yajin Wang MW 11:00am - 12:15pm	Seats (Total: 38) VMH 1415

BMGT452 Marketing Research Methods

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350 and BMGT230.

Focuses on aiding marketing decision-making through exploratory, descriptive and casual research. Develops student skills in designing market research studies, including selection of data collection method, development of data collection instrument, sample design, collection and statistical analysis of data and reporting the results.

0101	Lingling Zhang TuTh 3:30pm - 4:45pm *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1415
0201	Bo Zhou TuTh 2:00pm - 3:15pm *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1415
0301	Lingling Zhang TuTh 9:30am - 10:45am *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 32) VMH 1412
SG91	Bo Zhou TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 3052

BMGT454 Global Marketing

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.

0101	Amna Khawaja	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	VMH 1411
	Restricted to BMGT majors with 72 credit hours completed.	
SG91	M Fardanesh	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 4212
	Restricted to BMGT-Shady Grove Seniors majoring in Marketing and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT455 **Sales Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

The roles of the sales executive as a planner, manager of resources and marketing functions and recruiter, trainer, motivator and leader of field sales personnel. Techniques and sequence of problem analysis for selling and sales management decisions and to the practical framework in which these decisions take place. Teaching vehicles feature strong classroom interactions, cases, journal articles, research findings, guest sales managers, debates, and modern company practices.

Restricted to BMGT majors with 60 credit hours completed.

0101	Kathleen Kelly	Seats (Total: 40)
	TuTh 9:30am - 10:45am	VMH 1418

BMGT457 **Marketing Policies and Strategies**

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: BMGT350.

This capstone course ties together various marketing concepts using the fundamentals of strategic market planning as the framework. Application of these principles is accomplished by analyzing and discussing cases and by playing a marketing strategy computer simulation game. Analysis of current business articles to understand the link between theory and real-world problem solving.

Restricted to Marketing majors with 100 credit hours completed.

0101	Henry Boyd TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 1307
0201	Henry Boyd TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1307

BMGT458A **Special Topics in Marketing; Design and Innovation in Marketing**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Mary Harms TuTh 5:00pm - 6:15pm	Seats (Total: 35) VMH 1314
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458B **Special Topics in Marketing; Design Applications in Marketing and Branding**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Howard Bomstein M 7:00pm - 9:40pm	Seats (Total: 35) VMH 1307
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458I **Special Topics in Marketing; Organizational Communication in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in marketing.

Contact department for information to register for this course.

BMGT458J **Special Topics in Marketing; Strategic Overview of the Hospitality Industry**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

Restricted to students in the Smith School's Hospitality Business Program.

FP01	Patricia Stocker	Seats (Total: 20)
	M 5:30pm - 8:10pm	VMH 2509

BMGT458M **Special Topics in Marketing; Marketing for Non-profit Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in marketing.

Contact department for information to register for this course.

BMGT458Q **Special Topics in Marketing; Computer Graphics Workshop**

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Kelly Driver	Seats (Total: 26)
	W 7:00pm - 9:40pm	ATL 1410
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458R **Special Topics in Marketing; Advanced Computer Graphics Workshop**

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

Restricted to students in the Strategic Design and Innovation Fellows program.

FP01	Kelly Driver	Seats (Total: 17)
	W 4:00pm - 6:40pm	ATL 1410

BMGT461 **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

0101	Oliver Schlake Tu 7:00pm - 9:40pm	Seats (Total: 20) VMH 1206
	Restricted to BMGT majors with 72 credit hours completed. Non-majors should register for BMGT 461N.	
SG91	Oliver Schlake Th 2:00pm - 4:40pm	Seats (Total: 40) BLD2 3062
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT461M **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Restricted to Innovation and Entrepreneurship Minors.

0101	David Kressler TuTh 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 60) TWS 1100 ONLINE

BMGT461N **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Open to all non-BMGT majors with 72 credit hours completed. BMGT majors should register for BMGT 461.

0101	Oliver Schlake Tu 7:00pm - 9:40pm	Seats (Total: 20) VMH 1206

BMGT463 **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

0101	Debra Shapiro MW 2:00pm - 3:15pm	Seats (Total: 45) VMH 1418
	Restricted to International Business majors and Management majors with 72 credit hours completed.	
SG91	Debra Shapiro TuTh 12:30pm - 1:45pm	Seats (Total: 40) BLD3 4216
	Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Debra Shapiro TuTh 2:00pm - 3:15pm	Seats (Total: 40) BLD3 4216
	Restricted to BMGT-Shady Grove Seniors Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT463F **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

Restricted to Global Fellows students only.

FP01	Patricia Cleveland Tu 5:00pm - 7:40pm	Seats (Total: 35) VMH 1518

BMGT465 **Business Plan For The New Venture**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361.

Each student focuses on the production of a business plan that will be accepted for an annual business plan competition. Business plans of sufficient quality may be submitted to attract financing. Topics include a deep review of business construction and its derivative short forms.

Registration is restricted to BMGT-Shady Grove Entrepreneurship majors with 86 credits. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.

SG91	Oliver Schlake	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BLD2 3062
	Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduation BMGT students are not eligible to enroll at Shady Grove.	

BMGT466 Global Business Strategy

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.

Restricted to International Business majors and Management majors with 72 credit hours completed.

0101	Mark Wellman	Seats (Total: 45)
	Th 6:00pm - 8:40pm	ESJ 1215

BMGT467 Strategic Innovation and Entrepreneurship

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT467, ENES463 or HLMN472.

Provides an understanding of how innovation affects the competitive dynamics of markets, how firms can strategically manage innovation, and how firms can create and implement strategies to maximize their likelihood of success.

Restricted to Innovation and Entrepreneurship Minors.

0101	Clarence Wesley	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	SYM 0200

BMGT468E **Special Topics in Management and Organization; Smith Store 2.0: Rebuilding an Onsite and Online Retail Experience**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to BMGT majors with 30 credit hours completed.

0101	Oliver Schlake	Seats (Total: 30)
	M 5:00pm - 7:40pm	VMH 1206

BMGT468V **Special Topics in Management and Organization; Business Models and Methods to Affect Social Change**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

FP01	David Kirsch	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	VMH 1520
	Restricted to students in the Social Innovation Fellows program.	

BMGT468Y **Special Topics in Management and Organization; Entrepreneurial Capitalism Around the World**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed.

0101	Serguey Braguinsky	Seats (Total: 60)
	MW 11:00am - 12:15pm	SQH 1119

BMGT468Z **Special Topics in Management and Organization; Create the Future through Systems Thinking and Design**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed. Not open to stud ents in the QUEST Honors program.

0101	Gerald Suarez	Seats (Total: 35)
	MW 11:00am - 12:15pm	ESJ 2101

BMGT470 **Carrier Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT370.

The study of the wide range of issues facing managers in transportation This includes decisions on market entry, pricing, competitive responses, service levels, marketing strategies, capital structure, and growth objectives. Specific management decisions and overall strategies pursued by management are examined.

Restricted to Supply Chain Management majors.

0101	Leland Gardner MW 5:00pm - 6:15pm	Seats (Total: 40) VMH 1202

BMGT471F **Seminar in Supply Chain Management: An Executive Perspective**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372. Formerly: BMGT488L and BMGT498L.

Designed to provide students intensive interaction with senior supply chain executives from a cross-section of industries. Executives will share their insights about leading competitive supply chains in the global marketplace and assist students in understanding how to develop supply chain career strategies. Students will research the competitive supply chain dynamics of each executive's industry and review/analyze their findings with the executive.

Restricted to Supply Chain Management Fellows (FPLT).

FP01	Geoffrey Milsom, Dianne Fox M 6:30pm - 9:10pm	Seats (Total: 35) VMH 1314

BMGT472 **Purchasing and Inbound Logistics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

Analysis of the resupply activities of logistics management, including purchasing policies, transportation planning, and inventory control. Attention is directed toward total cost minimization and the establishment of a sustainable competitive advantage based on procurement.

Restricted to Supply Chain Management majors only.

0101	Philip Evers MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1411

BMGT476 **Technology Applications in Supply Chain Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

An understanding of the role of technology in managing the supply chain Provides students with hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating that these systems result in supply chain cost reductions and service improvements.

Restricted to SCM and Information Systems majors.

0101	Hongyi Zhang TuTh 9:30am - 10:45am	Seats (Total: 24) VMH 3522
0201	Hongyi Zhang TuTh 11:00am - 12:15pm	Seats (Total: 24) VMH 3522

BMGT477 **International Supply Chain Management**

Credits: 3 Grading Method: Regular

The study of the importance of the supply chain management within a global context. Topics covered include: the structure, service, pricing and competitive relationships among international carriers and transport intermediaries as well as documentation, location decisions, international sourcing/distribution and management of inventory throughout the international supply chain.

Restricted to SCM majors and International Business majors.

0101	Koki Nagata MW 12:30pm - 1:45pm	Seats (Total: 40) VMH 1336
0201	Koki Nagata MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1336
0301	Koki Nagata MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 1307

BMGT484 **Digital Marketing**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines the process of developing, implementing, and analyzing strategies for successfully marketing a variety of existing and potential products and services through digital means, including the web, social media, and mobile apps. Both the development and analysis of digital media for marketing will be discussed.

Restricted to BMGT majors with 60 credit hours completed.

0101	Mary Harms TuTh 2:00pm - 3:15pm *Restricted to BMGT majors with 60 credit hours completed.*	Seats (Total: 40) VMH 3505
0201	Mary Harms TuTh 3:30pm - 4:45pm *Restricted to BMGT majors with 60 credit hours completed.*	Seats (Total: 40) VMH 3505
SG91	Elie Ashery TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD1 206

BMGT485 Project Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Modern project management techniques that are used by modern practicing professionals will be covered. Particular attention is given to the management of technology based systems and projects in a business enterprise. The topics covered include: defining project scope, alignment of projects with enterprise strategy, managing project cost, time and risks using tools such as CPM/PERT, and measuring project performance.

Restricted to BMGT and QUEST students with 72 credits completed.

0101	Hassan Ibrahim MW 3:30pm - 4:45pm	Seats (Total: 48) VMH 1202

BMGT488A Special Topics in Logistics, Business, and Public Policy; Introduction to Sport Management

Credits: 3 Grading Method: Regular

Selected advanced topics in logistics, business and public policy.

Restricted to Sports Management Fellows (FPSM).

FP01	Timothy Heggans	Seats (Total: 32)
	Tu 7:00pm - 9:40pm	ESJ 2212

BMGT488F **Special Topics in Logistics, Business, and Public Policy; Corporate Social Responsibility and Sustainable Business Practices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488G **Special Topics in Logistics, Business, and Public Policy; International Business Institute**

Credits: 3 Grading Method: Regular

Selected advanced topics in logistics, business and public policy.

This accelerated course will focus on the opportunities/challenges of doing business in a globalized world, while providing insight into how students can leverage their international and cultural knowledge. Students will benefit from visits to companies, international organizations, and embassies and learn how a global mindset can provide an advantage in business.

0101	Bennet Zelner	Seats (Total: 20)
	F 9:00am - 5:00pm	Location: TBA
	Meets 9/1, 9/8, 9/22, 10/6, 10/13, 10/20, 11/3, 11/17, 12/1. Restricted to students with 60 credit hours completed.	

BMGT488R **Special Topics in Logistics, Business, and Public Policy; International Business Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488Y **Special Topics in Logistics, Business, and Public Policy; Corporate and Social Responsibility and Sustainable BusinessPractices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT490H **Quest Consulting and Innovation Practicum**

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: ENES490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Restricted to Quest Program students.

0101	Jeffrey Herrmann	Seats (Total: 45)
	Tu 6:30pm - 9:10pm	HJP 2242
	Contact instructor or department for details.	

BMGT491 **Defining Consulting and Innovation Projects**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

Prerequiste: BMGT190H or ENES190H. Restricted to Quest. Also offered as ENES491.

0101	Joseph Bailey	Seats (Total: 12)
	Tu 10:00am - 10:50am	VMH 4535
	F 10:00am - 11:40am	VMH 4535

BMGT493H **Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business.

First semester of the senior year. The course is designed for honors students who have elected to conduct intensive study (independent or group). The student will work under the direct guidance of a faculty advisor and the Assistant Dean of Undergraduate Studies. They shall determine that the area of study is of a scope and intensity deserving of a candidate's attention. Formal written and/or oral reports on the study may be required by the faculty advisor.

Restricted to BMGT Honors students.

0101	Charles Olson W 3:30pm - 6:10pm	Seats (Total: 35) VMH 1330

BMGT494H **Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT493. Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in the Smith School Honors Fellows program.

Second semester of the senior year. The student shall continue and complete the research initiated in BMGT 493, additional reports may be required at the discretion of the faculty advisor and Assistant Dean of Undergraduate Studies.

Restricted to BMGT Honors students.

0101	Charles Olson Contact instructor or department for details.	Seats (Total: 25)

BMGT495 **Strategic Management**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

Restricted to BMGT students with 60 credit hours completed.

0101	Donna Howell MW 9:30am - 10:45am	Seats (Total: 35) VMH 1314
0201	Clarence Wesley MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1314
0301	Clarence Wesley MW 12:30pm - 1:45pm	Seats (Total: 35) VMH 1314
0401	Evan Starr MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1314

0501	Evan Starr MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1314
0601	Donna Howell MW 5:00pm - 6:15pm	Seats (Total: 35) VMH 1314
0701	David Kressler TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 1314
0801	Christina Elson TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 1314
0901	Paulo Prochno TuTh 2:00pm - 3:15pm	Seats (Total: 35) VMH 1314
1001	Melanie Cohen TuTh 3:30pm - 4:45pm	Seats (Total: 35) VMH 1314
1101	Paulo Prochno TuTh 3:30pm - 4:45pm	Seats (Total: 35) ASY 3211
1201	David Kressler TuTh 9:30am - 10:45am	Seats (Total: 35) VMH 1314
1301	Protiti Dastidar MW 9:30am - 10:45am	Seats (Total: 35) VMH 1336
1401	Protiti Dastidar MW 11:00am - 12:15pm	Seats (Total: 35) TWS 0214
1501	Protiti Dastidar MW 12:30pm - 1:45pm	Seats (Total: 35) TWS 0214

BMGT496 **Business Ethics and Society**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course in BMGT; or permission of BMGT-Robert H. Smith School of Business.

A study of the standards of business conduct, morals and values as well as the role of business in society with consideration of the sometimes conflicting interests of and claims on the firm and its objectives. Emphasizes a strategic approach by business to the management of its external environment.

0101	William McClenahan TuTh 2:00pm - 3:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 40) VMH 1311
SG91	Jennifer Gershberg TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 3012

BMGT498A **Special Topics in Business and Management; Financial Management for Hospitality Businesses**

(Perm req)

Credits: 3 Grading Method: Regular

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Restricted to students in the Hospitality Business Program

0101	Daryl Rhead Th 7:00pm - 9:40pm	Seats (Total: 15) VMH 1314

BMGT498L **Special Topics in Business and Management; Innovating the Higher Education Business Model**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Innovo Scholars is a new program offering an elite group of students the opportunity to participate in the innovation of teaching and learning at Smith. In addition to completing normal teaching assistant activities, the Scholars will be responsible for designing and implementing improvements to an existing Smith course or program.

0101	Jonathan Southgate Th 5:00pm - 6:50pm Contact instructor or department for details.	Seats (Total: 30) VMH 1202

BMGT499G **Advanced Business Topics; Maryland Social Entrepreneur Corps II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Course will delve deeply into a specific business topic. Based on experience and knowledge from undergraduate core business classes, students will examine a particular subject from various angles.

Also offered as AMST499D. Credit granted for BMGT499G or AMST499D. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

Contact department for information to register for this course.

BMGT808G **Special Topics in Information Systems; Applied Microeconomics**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Kislaya Prasad	Seats (Total: 12)
	W 10:00am - 12:40pm	VMH 3332

BMGT808R **Special Topics in Information Systems; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Sivakumar Viswanathan	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT808V **Special Topics in Information Systems; Research in Strategy and Information Systems I**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Peng Huang	Seats (Total: 12)
	Meets August 28, 2017 - October 13, 2017	
	F 3:30pm - 6:30pm	VMH 2509

BMGT808W **Special Topics in Information Systems; Research in Strategy and Information Systems II**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Ritu Agarwal	Seats (Total: 12)
	Meets October 17, 2017 - December 11, 2017	
	Tu 10:30am - 1:40pm	VMH 4534

BMGT818G **Special Topics in Accounting and Information Assurance; Seminar in Management Accounting**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Emanuel Zur	Seats (Total: 12)
	W 9:30am - 12:00pm	VMH 1326

BMGT818N **Special Topics in Accounting and Information Assurance; Workshop in Accounting Research**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Musa Subasi	Seats (Total: 10)
	F 10:00am - 10:50am	VMH 4335

BMGT828 **Independent Study in Business and Management**

Credits: 1-9 Grading Method: Regular

Contact department for information to register for this course.

BMGT830 **Operations Research: Linear Programming**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH240; or students who have taken courses with comparable content may contact the department; or permission of BMGT-Robert H. Smith School of Business.

Concepts and applications of linear programming models, theoretical development of the simplex algorithm, and primal-dual problems and theory.

0101	Raghu Raghavan MW 2:00pm - 3:15pm	Seats (Total: 25) VMH 2505

BMGT836 **Applied Regression Models**

Credits: 3 Grading Method: Regular, Audit

Recommended: It is assumed that the student has taken a first course in statistics and is familiar with the content of such course including interval estimation and hypothesis testing.

An introduction to regression models used in business research. Topics include: simple and multiple regression, diagnostics for checking model adequacy, transformations, polynomial models, indicator variables, multicollinearity, variable selection, times series data, generalized linear models, implementation using statistical software, and application to research questions.

0101	Courtney Paulson Tu 9:00am - 11:30am	Seats (Total: 12) VMH 3330H

BMGT838R **Special Topics in Operations Management/Management Science; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Zhi-Long Chen Contact instructor or department for details.	Seats (Total: 12)

BMGT840 **Seminar in Financial Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BMGT-Robert H. Smith School of Business.

Seminar in selected classic and current theoretical and empirical research in the foundations of finance.

0101	Yajun Wang Tu 9:00am - 11:40am	Seats (Total: 12) VMH 3332

BMGT848A **Special Topics in Finance; Financial Research Methods**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	Laurent Fresard **Meets August 28, 2017 - October 14, 2017** MW 10:00am - 12:00pm	Seats (Total: 12) VMH 4535

BMGT848F **Special Topics in Finance; Workshop in Finance Research**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	William Mullins, Shrihari Santosh F 9:00am - 12:00pm	Seats (Total: 12) VMH 1333

BMGT858C **Special Topics in Marketing; Consumer Behavior**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Amna Khawaja W 1:30pm - 4:10pm	Seats (Total: 12) VMH 2509

BMGT858P **Special Topics in Marketing; Marketing Models**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Pallassana Kannan M 1:30pm - 4:10pm	Seats (Total: 12) VMH 2509

BMGT858R **Special Topics in Marketing; Marketing Research Seminar**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Pallassana Kannan	Seats (Total: 12)
	F 10:00am - 12:30pm	VMH 1330

BMGT868P **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Management Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Subrahmaniam Tangirala	Seats (Total: 10)
	W 11:00am - 12:30pm	VMH 2509

BMGT868Q **Special Topics in Organizational Behavior/Human Resource Management; Managing Conflict and Negotiations**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Debra Shapiro	Seats (Total: 12)
	Meets August 28, 2017 - October 13, 2017	
	M 10:00am - 1:50pm	VMH 4534

BMGT868R **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

Restricted to OBHR and SM&E majors. Meets 9am-12:35pm 8/14, 8/18, 8/22, 8/24, 8/29, 9/19, 9/26.

0101	Gilad Chen	Seats (Total: 12)
	Meets August 14, 2017 - September 26, 2017	
	Contact instructor or department for details.	

BMGT868W **Special Topics in Organizational Behavior/Human Resource Management; Work Motivation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

Meets 10/23, 10/30, 11/6, 11/13, 11/20, 11/27, 12/11.

0101	Gilad Chen **Meets October 23, 2017 - December 11, 2017** M 9:00am - 12:35pm	Seats (Total: 12) VMH 4534

BMGT868Y **Special Topics in Organizational Behavior/Human Resource Management; Micro-Topics in Human Resources**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

Meets 1-5:10pm on 11/15, 11/29, 12/4, 12/6, 12/13, 12/16.

0101	Mary Taylor **Meets November 15, 2017 - December 16, 2017** Contact instructor or department for details.	Seats (Total: 12)

BMGT878C **Special Topics in Strategic Management and Entrepreneurship; Cross Disciplinary Workshop**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Cristian Dezso, Waverly Ding Th 11:00am - 12:30pm	Seats (Total: 12) VMH 2505

BMGT878F **Special Topics in Strategic Management and Entrepreneurship; Sociological Foundations**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Waverly Ding	Seats (Total: 12)
	Meets October 23, 2017 - December 11, 2017	
	W 1:00pm - 4:50pm	VMH 4534

BMGT878P **Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship PhD Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Rajshree Tronetti	Seats (Total: 12)
	Th 9:15am - 10:45am	VMH 2505

BMGT878R **Special Topics in Strategic Management and Entrepreneurship; Straegy and Entrepreneurship Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	David Waguespack	Seats (Total: 12)
	Meets October 23, 2017 - December 11, 2017	
	Tu 9:00am - 12:35pm	VMH 4335

BMGT878T **Special Topics in Strategic Management and Entrepreneurship; Organizational Theory**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	David Kirsch	Seats (Total: 12)
	Meets August 28, 2017 - October 13, 2017	
	W 1:00pm - 4:35pm	VMH 4534

BMGT878X **Special Topics in Strategic Management and Entrepreneurship; The Best Methods Course Ever, Really**

Credits: 4 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Brent Goldfarb, Evan Starr W 9:00am - 12:35pm	Seats (Total: 12) VMH 4534

BMGT888L **Special Topics in Supply Chain Management; Logistics Research**

Credits: 3 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Martin Dresner M 9:00am - 11:40am	Seats (Total: 12) VMH 3332

BMGT888W **Special Topics in Supply Chain Management; Workshop in Supply Chain Management**

Credits: 1 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Martin Dresner F 1:00pm - 2:30pm	Seats (Total: 12) VMH 3332

BMGT888Y **Special Topics in Supply Chain Management; Supply Chain Research Within Strategy**

Credits: 3 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Curtis Grimm Th 2:00pm - 4:40pm	Seats (Total: 12) VMH 3332

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BSCI Biological Sciences Program Fall 2017

BSCI121 **Beekeeping**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

Additional information: Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

A study of the life history, behavior and seasonal activities of the honeybee, its place in pollination of flowers with emphasis on plants of economic importance and bee lore in literature.

The lab meets frequently at the greenhouse and due to possible inclement weather has an alternative lab meeting on Thursdays at the same time. Students should plan their schedule to allow sufficient travel time to and from the greenhouse.

BL01	Dennis vanEngelsdorp Class time/details on ELMs Tu 9:30am - 10:45am	Seats (Total: 36) ONLINE PLS 1119	Lab

BSCI126 **Pollinators in Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS, SCIS

We will dissect the pollinator crisis, and in the process learn about insects, about the interaction of organisms in complex ecosystems, and about the human-nature interface. Students will work in groups that specialize in an aspect of pollinator biology and their challenges. Instruction will target methods for collecting information, interpretation of scientific information and the professional presentation of findings.

0101	David Hawthorne TuTh 8:00am - 9:15am Tu 9:30am - 10:20am	Seats (Total: 20) PLS 1140 PLS 1161	Discussion
0102	David Hawthorne TuTh 8:00am - 9:15am Tu 11:00am - 11:50am	Seats (Total: 20) PLS 1140 PLS 1161	Discussion
0103	David Hawthorne TuTh 8:00am - 9:15am Th 9:30am - 10:20am	Seats (Total: 20) PLS 1140 PLS 1161	Discussion

0104	David Hawthorne TuTh 8:00am - 9:15am Th 11:00am - 11:50am	Seats (Total: 20) PLS 1140 PLS 1161	 Discussion

BSCI135 **Amazing Green: Plants that Transformed the World**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

Students must pay a $40.00 laboratory materials fee.

0101	Edgar Moctezuma TuTh 9:30am - 10:45am M 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0102	Edgar Moctezuma TuTh 9:30am - 10:45am Tu 12:00pm - 2:00pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0103	Edgar Moctezuma TuTh 9:30am - 10:45am W 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0104	Edgar Moctezuma TuTh 9:30am - 10:45am Th 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab

BSCI160 **Principles of Ecology and Evolution**

Credits: 3 | Grading Method: Regular | General Education: DSNL (if taken with BSCI161), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Restriction: For Science Majors. Credit only granted for: BSCI106 or BSCI160. Formerly: BSCI106.

Basic principles of biology with special emphasis on ecological and evolutionary biology.

6101	Marcia Shofner TuTh 9:30am - 10:45am	Seats (Total: 142) ESJ 1224	

6201	Marcia Shofner TuTh 12:30pm - 1:45pm	Seats (Total: 142) ESJ 1224	
6301	Leo Shapiro TuTh 2:00pm - 3:15pm	Seats (Total: 142) HJP 0226	
6401	Alys Jarvela MWF 11:00am - 11:50am	Seats (Total: 135) BPS 1250	

BSCI161 **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Restriction: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

Students must pay a $40.00 laboratory materials fee.

6104	Leo Shapiro M 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6105	Leo Shapiro M 11:00am - 1:50pm	Seats (Total: 24) HJP 3217	Lab
6110	Leo Shapiro M 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab
6111	Leo Shapiro M 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab
6204	Leo Shapiro Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6205	Leo Shapiro Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 3217	Lab
6211	Leo Shapiro Tu 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab
6304	Leo Shapiro W 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab

6305	Leo Shapiro W 11:00am - 1:50pm	Seats (Total: 23) HJP 3217	Lab
6307	Leo Shapiro W 2:00pm - 4:50pm *This section is restricted to BioFire students.*	Seats (Total: 24) HJP 3211	Lab
6401	Leo Shapiro Th 8:00am - 10:50am	Seats (Total: 24) HJP 3211	Lab
6405	Leo Shapiro Th 11:00am - 1:50pm	Seats (Total: 24) HJP 3217	Lab
6408	Leo Shapiro Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6410	Leo Shapiro Th 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab

BSCI161C **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Restriction: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

6108	Leo Shapiro M 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6207	Leo Shapiro Tu 2:00pm - 4:50pm *Restricted to BioFire students.*	Seats (Total: 24) HJP 3211	Lab
6210	Leo Shapiro Tu 5:00pm - 7:50pm	Seats (Total: 24) HJP 3211	Lab
6308	Leo Shapiro W 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab

6404	Leo Shapiro Th 11:00am - 1:50pm	Seats (Total: 24) HJP 3211	Lab
6407	Leo Shapiro Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 3211	Lab

BSCI161S **Principles of Ecology and Evolution Lab**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Restriction: For Science majors.

Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.

Students without the math pre-requisite will be administratively dropped. (Sponsoring Dept.: BSCI). Restricted to College Park Scholars - Life Sciences. Students must pay a $40.00 laboratory materials fee.

6107	Leo Shapiro M 2:00pm - 4:50pm	Seats (Total: 24) HJP 3211	Lab
6208	Leo Shapiro Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 3217	Lab
6411	Leo Shapiro Th 5:00pm - 7:50pm	Seats (Total: 24) HJP 3217	Lab

BSCI170 **Principles of Molecular & Cellular Biology**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with BSCI171), DSNS

Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.

Basic principles of biology with special emphasis on cellular and molecular biology.

0101	Michael Keller, Patricia Shields MWF 9:00am - 9:50am	Seats (Total: 160) ESJ 0224	
0201	Michael Keller, Patricia Shields MWF 11:00am - 11:50am	Seats (Total: 130) ESJ 1224	

0301	Michael Keller, Patricia Shields MWF 12:00pm - 12:50pm	Seats (Total: 170) ESJ 0224	
0401	David Kirschtel TuTh 3:00pm - 4:15pm	Seats (Total: 160) MMH 1400	
FC01	Michael Keller MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection*	Seats (Total: 138) JMZ 0220	
SEF1	James Sniezek Tu 6:00pm - 8:50pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 30) PLS 1130	

BSCI171 **Principles of Molecular & Cellular Biology Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI170. Recommended: For Science majors.

Basic laboratory principles of biology with special emphasis on cellular and molecular biology.

Students must pay a $40.00 laboratory materials fee.

1021	David Kirschtel M 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
1031	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
1032	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
1033	David Kirschtel M 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
2021	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
2022	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab

2023	David Kirschtel Tu 11:00am - 1:50pm	Seats (Total: 24) HJP 1236	Lab
2031	David Kirschtel Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
2032	David Kirschtel Tu 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
3021	David Kirschtel W 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
3022	David Kirschtel W 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
3031	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
3032	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab
3033	David Kirschtel W 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
3041	David Kirschtel W 6:00pm - 8:50pm	Seats (Total: 24) HJP 1226	Lab
4021	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1226	Lab
4022	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1235	Lab
4023	David Kirschtel Th 11:00am - 1:50pm	Seats (Total: 24) HJP 1236	Lab
4031	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1226	Lab
4032	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1235	Lab

4033	David Kirschtel Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 1236	Lab
4041	David Kirschtel Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 1235	Lab
4043	David Kirschtel Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 1236	Lab
FC2N	David Kirschtel M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC2O	David Kirschtel M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1236	Lab
FC4N	David Kirschtel W 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC5A	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1226	Lab
FC5B	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1235	Lab
FC5C	David Kirschtel F 8:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 23) HJP 1236	Lab
SEF1	David Kirschtel Th 6:00pm - 8:50pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 23) HJP 1226	Lab

BSCI201 Human Anatomy and Physiology I

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: BSCI170 and BSCI171; or BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, an sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Not acceptable for credit in any Biological Sciences major. (Sponsoring Dept.: BIOL). Students must pay a $40.00 laboratory materials fee.

0101	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0102	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm M 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0103	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0104	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0105	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0106	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm W 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0107	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm W 7:00pm - 9:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab
0108	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0205	Lab

0109	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0110	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0111	Justicia Opoku-Edusei, Caitlin Fox MWF 12:00pm - 12:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0112	Caitlin Fox, Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
1101	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm M 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1102	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm M 7:00pm - 9:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1103	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1104	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm W 9:00am - 11:50am	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1105	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm W 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab
1106	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm Th 8:00am - 10:50am	Seats (Total: 24) ESJ 0224 BPS 0205	 Lab

1107	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	Lab
1108	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Th 6:00pm - 8:50pm	Seats (Total: 24) ESJ 0224 BPS 0205	Lab
1109	Caitlin Fox, Sara Lombardi TuTh 12:30pm - 1:45pm M 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	Lab
1110	Sara Lombardi, Caitlin Fox TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	Lab

BSCI202 **Human Anatomy and Physiology II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 laboratory materials fee.

0101	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am M 11:00am - 1:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	Lab
0102	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 0224 BPS 0201	Lab
0105	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am Tu 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	Lab

0106	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am Tu 7:00pm - 9:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
0109	Tammatha O'Brien, Caitlin Fox TuTh 8:00am - 9:15am W 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
0110	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am W 5:00pm - 7:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
0112	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am Th 11:00am - 1:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
0113	Caitlin Fox, Tammatha O'Brien TuTh 8:00am - 9:15am Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 0224 BPS 0275	 Lab
1101	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am M 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
1102	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am M 5:00pm - 7:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
1103	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Tu 4:00pm - 6:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
1104	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am W 8:00am - 10:50am	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
1105	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am W 11:00am - 1:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab

1106	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Th 2:00pm - 4:50pm	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
1107	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Th 1:00pm - 3:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	 Lab
1108	Caitlin Fox, Sara Lombardi TuTh 9:30am - 10:45am Th 5:00pm - 7:50pm	Seats (Total: 24) ESJ 0224 BPS 0275	 Lab
1109	Sara Lombardi, Caitlin Fox TuTh 9:30am - 10:45am F 8:00am - 10:50am	Seats (Total: 24) ESJ 0224 BPS 0201	 Lab
SEF1	Tammatha O'Brien, Caitlin Fox Tu 6:00pm - 8:50pm Th 6:00pm - 8:50pm	Seats (Total: 24) PLS 1119 BPS 0201	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

BSCI207 **Principles of Biology III - Organismal Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And must have completed or be concurrently enrolled in CHEM131.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

0101	Bretton Kent MWF 9:00am - 9:50am	Seats (Total: 180) HJP 0226
0201	Karen Carleton, Eric Haag MWF 2:00pm - 2:50pm	Seats (Total: 150) ESJ 1224
0301	Karen Carleton, Eric Haag MWF 3:00pm - 3:50pm	Seats (Total: 135) ESJ 1224

BSCI222 **Principles of Genetics**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

(Sponsoring Dept.: BSCI).

2121	Kimberly Paczolt MWF 1:00pm - 1:50pm M 10:00am - 11:50am	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2122	Kimberly Paczolt MWF 1:00pm - 1:50pm M 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2124	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 10:00am - 11:50am	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2125	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2127	Kimberly Paczolt MWF 1:00pm - 1:50pm Tu 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2130	Kimberly Paczolt MWF 1:00pm - 1:50pm W 3:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2132	Kimberly Paczolt MWF 1:00pm - 1:50pm W 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2137	Kimberly Paczolt MWF 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion

2140	Kimberly Paczolt MWF 1:00pm - 1:50pm W 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2141	Kimberly Paczolt MWF 1:00pm - 1:50pm Th 2:00pm - 3:50pm	Seats (Total: 23) BRB 1101 PLS 1121	Discussion
2211	Thomas Kocher TuTh 11:00am - 12:15pm M 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1162	Discussion
2215	Thomas Kocher TuTh 11:00am - 12:15pm Tu 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 HJP 3233	Discussion
2221	Thomas Kocher TuTh 11:00am - 12:15pm Tu 4:00pm - 5:50pm	Seats (Total: 24) HJP 0226 PLS 1117	Discussion
2231	Thomas Kocher TuTh 11:00am - 12:15pm Tu 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 PLS 1111	Discussion
2251	Thomas Kocher TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1158	Discussion
2264	Thomas Kocher TuTh 11:00am - 12:15pm Th 8:00am - 9:50am	Seats (Total: 24) HJP 0226 HBK 0105	Discussion
2265	Thomas Kocher TuTh 11:00am - 12:15pm Th 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 PLS 1119	Discussion
2267	Thomas Kocher TuTh 11:00am - 12:15pm Th 4:00pm - 5:50pm	Seats (Total: 23) HJP 0226 PLS 1172	Discussion

2271	Thomas Kocher TuTh 11:00am - 12:15pm Th 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 BPS 1234	Discussion

BSCI223 **General Microbiology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

Prerequisite: BSCI170 and BSCI171; or BSCI105.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee.

1101	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1106	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1121	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1126	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1201	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1206	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1221	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab

1301	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1305	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1306	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1321	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1325	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1326	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1405	John Buchner TuTh 11:00am - 11:50am MW 4:00pm - 5:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
2105	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1205	Lab
2205	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
2226	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab

2401	John Buchner TuTh 11:00am - 11:50am MW 4:00pm - 5:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
SEF1	David Rollins, Eric Hall TuTh 6:00pm - 6:50pm TuTh 7:00pm - 9:00pm	Seats (Total: 20) MCB 1207 MCB 1201	Lab

Restricted to students in the SIE Program. Click here for more information.

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI279P **Supplemental Study; Undergraduate Teaching Fellows Professional Development Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

0101	Francisca Saavedra W 4:00pm - 4:50pm	Seats (Total: 34) PLS 1117

BSCI279Q **Supplemental Study; Readings in Neurophysiology**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

0101	Patrick Kanold, Ricardo Araneda, Daniel Butts, Elizabeth Quinlan Contact instructor or department for details.	Seats (Total: 13)

BSCI279R **Supplemental Study; Undergraduate Research Rotation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI279T **Supplemental Study; BSCI Learning Assistants**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

Contact department for information to register for this course.

BSCI283 **Principles of Microbiology**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL, SCIS

Prerequisite: BSCI207 and BSCI222. Credit only granted for: BSCI223 or BSCI283. Additional information: Priority given to BSCI, BCHM and CHEM majors.

Introduction to microorganisms designed for science majors. Genetic principles underlying microbial abilities; microbial structure-function relationships; metabolism, physiology, and ecology of microorganisms; interactions between microorganisms (including pathogens) and their hosts.

1225	Daniel Stein, Richard Stewart, Wade Winkler TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) HJP 2242 MCB 1205	Lab
2125	Wade Winkler, Daniel Stein, Richard Stewart TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) HJP 2242 MCB 1205	Lab

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BSCI288 **Internship; Field Experience**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI288H **Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

Contact department for information to register for this course.

BSCI289 **Off-Campus Internship**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

Provides credit for off-campus research internships. This credit counts as elective toward graduation, but does not satisfy any Biological Sciences degree requirements (For information about research credit that does count toward Biological Sciences contact the Biological Sciences Program, room 1322 Symons Hall). The off-campus internship credit requires that a contract form be filed with the Director of Undergraduate Research and Internship Programs, Room 1313 Symons Hall, prior to the internship. The contract must be finalized and signed by the research supervisor at the end of the semester before credit will be awarded.

1110	Katerina Thompson Contact instructor or department for details.	Seats (Total: 20)

BSCI329 **Instructional Assistance Practicum**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail

Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.

Prerequiste: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

1016	Hilary Bierman Contact instructor or department for details.	Seats (Total: 10)
1060	Marco Colombini Contact instructor or department for details.	Seats (Total: 4)

1250	Justicia Opoku-Edusei Contact instructor or department for details.	Seats (Total: 20)	
2080	Todd Cooke Contact instructor or department for details.	Seats (Total: 10)	

BSCI330 **Cell Biology and Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Ibrahim Ades MWF 9:00am - 9:50am M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0102	Ibrahim Ades MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0103	Ibrahim Ades MWF 9:00am - 9:50am Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0104	Ibrahim Ades MWF 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0105	Ibrahim Ades MWF 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab

0107	Ibrahim Ades MWF 9:00am - 9:50am W 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0108	Ibrahim Ades MWF 9:00am - 9:50am Th 8:00am - 10:50am	Seats (Total: 23) BRB 1101 BPS 0207	 Lab
0109	Ibrahim Ades MWF 9:00am - 9:50am Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0111	Ibrahim Ades MWF 9:00am - 9:50am M 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0114	Ibrahim Ades MWF 9:00am - 9:50am Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
1101	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1102	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1103	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm Tu 8:30am - 11:20am	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1104	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1105	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab

1106	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1108	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm W 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
SEF1	Elizabeth Read-Connole Tu 6:30pm - 9:30pm Th 6:30pm - 9:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) PLS 1146 BPS 0207	 Lab
SG91	Beth Parent TuTh 11:00am - 12:15pm Th 2:00pm - 4:50pm *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 20) BLD2 3032 BLD2 4012	 Lab
SG92	Beth Parent TuTh 11:00am - 12:15pm Tu 2:00pm - 4:50pm	Seats (Total: 12) BLD2 3032 BLD2 4012	 Lab

BSCI330H **Cell Biology and Physiology**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV and GENB. Restricted to students in the Integrated Life Science Honors program and permission of the instructor. Students must pay a $40.00 laboratory materials fee.

0101	Sabrina Kramer, Kathryn Monzo MWF 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) CCC 1205 BPS 0207	 Lab
0102	Kathryn Monzo, Sabrina Kramer MWF 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 24) CCC 1205 BPS 0207	 Lab
0103	Sabrina Kramer, Kathryn Monzo MWF 10:00am - 10:50am Th 2:00pm - 4:50pm	Seats (Total: 24) CCC 1205 BPS 0213	 Lab

BSCI338A **Special Topics in Biology; Insect Compound Eye & Vision in Invertebrate Animals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequiste: BSCI353 The course will investigate, through original research papers, the structure, development, optics and physiological function of vision in insect and other invertebrate species. We will follow the evolution of vision in insects and explore how general principles of visual signal processing drove an increasing sophistication of eye structure and function. Wherever possible we will draw comparisions with the function and eyes in vertebrates and with human vision. Applicable towards Biological Sciences Specialization arease: PHNB, GENB cell biology/physiology category. Sponsoring Dept. BIOL.

0101	Richard Payne MF 9:00am - 9:50am W 9:00am - 9:50am	Seats (Total: 30) PLS 1119 BPS 1238	 Discussion

BSCI338D **Special Topics in Biology; Complexity of Cancer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338G **Special Topics in Biology; Seminar on Deregulated Cell Growth in Cancer and Drug Development**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Pre-requisite: BSCI 330. Acceptable towards Biological Sciences Specialization Areas: PHNB and GENB. (Sponsoring Dept: BIOL).

0101	Ibrahim Ades	Seats (Total: 20)
	M 1:00pm - 2:40pm	PLS 1146

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338J **Special Topics in Biology; Medical Exploration of HIV/AIDS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338Z **Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major. Contact the Biology Department Undergraduate Office for course information.

Contact department for information to register for this course.

BSCI339C **Selected Topics in Biology; Cell Biology Lab**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: BSCI420. Credit will be granted for BSCI339C or BSCI421. Students must pay a $40.00 lab materials fee. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB.

0101	Hadiya Woodham	Seats (Total: 3)	
	Tu 2:00pm - 6:00pm	PLS 1171	Lab

BSCI339D **Selected Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prequisite:BSCI353. Applicable towards Biological Sciences Specialization areas: GENB, PHNB.

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 2249

BSCI339I **Selected Topics in Biology; Cellular Mechanisms of Aging and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI 330. This course will explore the cellular mechanisms underlying aging and a variety of noninfectious diseases and disorders ranging from diabetes and obesity to Alzheimer's and variosu cancers. In addition to lectures,students will read and discuss relevant primary and secondary literature. Assessments will include student-led discussion of primary literature and group presentations of disease topics. Acceptables towards Biological Sciences Specialization Areas: PHNB, CEBG cell biology category, GENB cell biology/physiology category.

0101	Hadiya Woodham	Seats (Total: 36)
	TuTh 4:00pm - 5:15pm	BPS 1238

BSCI339R **Selected Topics in Biology; Strategies for Success**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

SG91	Noah Gibson, Annie Foster Ahmed F 9:30am - 10:20am	Seats (Total: 40) BLD3 3220

Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.

BSCI348 **Special Topics in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). May be repeated, but only 3 credits may be applied to major requirements.

Contact department for information to register for this course.

BSCI348A **Special Topics in Cell Biology and Molecular Genetics; Microbiology Undergraduate Teaching Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will act as Undergraduate Teaching Assistants for BSCI223. Prerequisite: A or B in BSCI223 and permission of instructor. Students must be available for one of the BSCI223 lab periods. Students interested in this teaching/leadership opportunity should contact Dr. Richard Stewart for application information: This course is applicable for the Enrichment credits required of all Biological Sciences students in majors with 0404 codes. For others this is elective credit. Formerly: BSCI348U.

0101	John Buchner, Richard Stewart F 8:00am - 8:50am Contact instructor or department for details.	Seats (Total: 25) BPS 1234

BSCI348I **Special Topics in Cell Biology and Molecular Genetics; Scientific Readings in Infectious Disease Processes**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

SEF1	Volker Briken	Seats (Total: 15)
	Tu 6:00pm - 9:00pm	PLS 1117
	Restricted to students in the SIE Program.	

BSCI348P **Special Topics in Cell Biology and Molecular Genetics; Introductory Biology Curriculum and Instruction Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). Students will learn about methodologies and curriculum tools applicable to the field of undergraduate science education; the practicum component of the course will allow students to directly apply such innovative approaches through an undergraduate teaching and learning assistantship (UTLA) in conjunction with BSCI105. Prerequisite: A or B in BSCI105 and permission of instructor. Student must be available for one of the BSCI105 lecture periods (MWF 10-10:50). Students interested in this teaching/leadership opportunity should contact either Dr. Patricia Shields (pshields@umd.edu) for further information. This course is applicable for the Enrichment credits required of all Biological students in majors with 0404 codes. For others this is an elective credit.

0201	Patricia Shields	Seats (Total: 20)
	M 5:00pm - 7:00pm	ESJ 1215
	Contact instructor or department for details.	

BSCI348Q **Special Topics in Cell Biology and Molecular Genetics; Introdutory Biology Learing Assistantship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students apply methodologies learned in BSCI348P by serving as an undergraduate learning assistant (ULA) in conjunction with BSCI170 (formerly BSCI105). Prerequisite: A or B in BSCI348P and permission of instructor. Student must be available for one of the BSCI170 lecture periods (MWF 11-11:50 or 2:00-2:50). Students interested in this teaching/leadership opportunity should contact Dr. Patricia Shields (pshields@umd.edu) for further information.

0101	Patricia Shields	Seats (Total: 40)
	M 6:00pm - 7:00pm	ESJ 1215
	Contact instructor or department for details.	

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

This course is an opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course. (Sponsoring Dept.: CBMG).

0101	David Straney	Seats (Total: 8)
	Contact instructor or department for details.	

BSCI353 **Principles of Neuroscience**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

0101	Richard Payne	Seats (Total: 180)
	TuTh 12:30pm - 1:45pm	HJP 0226
SG91	David Sandstrom	Seats (Total: 40)
	MW 11:00am - 12:15pm	BLD2 3052
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

BSCI360 **Principles of Animal Behavior**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And BSCI222.

Study of animal behavior with emphasis on its evolution and function. Topics include genetic basis of behavior, communication, aggression, foraging, cooperation, mate selection, and relevance for conservation.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: PHNB, and GENB.

0101	Gerald Borgia MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion
0102	Gerald Borgia MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion
0103	Gerald Borgia MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) PLS 1130 PLS 1162	 Discussion

BSCI361 **Principles of Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).

Basic principles of population, community, and ecosystem ecology. Use o these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB.

0101	Nathan Swenson TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 25) PLS 1130 CHM 0124	 Discussion
0102	Nathan Swenson TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 25) PLS 1130 CHM 0124	 Discussion
0103	Nathan Swenson TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 25) PLS 1130 CHM 0124	 Discussion

BSCI363 **The Biology of Conservation and Extinction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI361.

Ecology, evolutionary biology, and paleontology will be applied to the study of conservation, species invasions, and extinction.

0101	Francisca Saavedra	Seats (Total: 96)
	MWF 11:00am - 11:50am	ESJ 1202

BSCI370 **Principles of Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106.

Understanding evolutionary processes in a natural and human environment including adaptation; DNA sequence, protein, and genome evolution; evolution of developmental mechanisms; mechanisms of evolutionary change (mutation, natural selection, drift); epidemiology; coevolution and biological control; speciation; comparative methods; extinction and conservation; human evolution.

(Sponsoring Dept.: BIOL) Applies to Biological Sciences Specialization Areas: PHNB, GENB, and ECEV.

0101	Carlos Machado	Seats (Total: 100)
	TuTh 11:00am - 12:15pm	PLS 1140

BSCI373 **Natural History of the Chesapeake Bay**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 credits in BSCI courses; or permission of CMNS-Biological Sciences UG Program. Also offered as: ENST373. Credit only granted for: BSCI206, BSCI373, or ENST373.

Consideration of the major groups of organisms associated with the Chesapeake Bay and current issues that determine humans' present and future uses for the Chesapeake and its biota.

0101	Patrick Kangas	Seats (Total: 80)
	MWF 3:00pm - 3:50pm	ANS 0408

BSCI374H **Mathematical Modeling in Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH131, MATH136, or MATH141. Also offered as: HLSC374. Credit only granted for: BSCI374, BSCI474, or HLSC374. Formerly: BSCI474.

Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.

Applies as an upper-level laboratory course to Biological Sciences Sciences Specialization Areas: GENB, ECEV, and PHNB.

0101	Jonathan Simon	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

BSCI378H **Cell Biology and Molecular Genetics Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept.: CBMG). Restricted to students participating in the CBMG Departmental Honors Program. If you are interested in a CBMG Departmental Honors Research experience, please see the CBMG department web site for detailed information.

Click here for more course information.

0101	Louisa Wu	Seats (Total: 19)
	F 2:00pm - 2:50pm	HJP 1216

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Prequisite: permission of department. See CBMG department Undergraduate office. (Sponsoring Dept: CBMG).

Contact department for information to register for this course.

BSCI379H **Cell Biology and Molecular Genetics Department Honors Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Student should consult program guidelines. Research project carried out under guidance of faculty advisor.

Corequisite: BSCI378H. Restricted to students participating in the CBMG Departmental Honors Program. (Sponsoring Dept.: CBMG).

Click here for more course information.

Contact department for information to register for this course.

BSCI379L **Cell Biology and Molecular Genetics Department Research; Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Any combination of 3 credits of BSCI 379G, BSCI 379L, and BSCI 379H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Cell Biology & Molecular Genetics department research lab before getting permission to take BSCI 379L in the same lab. Students completing at least 4 credits of laboratory research including at east one semester taking BSCI 379L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI389H **Entomology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI389L **Entomology Department Research; Lab Research**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

Contact department for information to register for this course.

BSCI398H **Biology Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept. :BIOL).

1000	Alexandra Bely M 4:00pm - 5:00pm	Seats (Total: 35) BPS 1208

BSCI399 **Biology Department Research; Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

(Sponsoring Dept: BIOL)

Contact department for information to register for this course.

BSCI399H **Biology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Dept: BIOL).

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Contact department for information to register for this course.

BSCI404 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330. Recommended: PHYS121 and PHYS122; or completion of PHYS131 and PHYS132 recommended. Also offered as: BIOL704, BIPH704. Credit only granted for: BSCI338O, BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BSCI338O.

An approach to cell biology by focusing on mechanisms and unifying physical paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think mechanistically and quantitatively.

0101	Sergei Sukharev TuTh 3:30pm - 4:45pm	Seats (Total: 15) PLS 1113

BSCI410 **Molecular Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222. And must have completed CHEM233; or (CHEM231 and CHEM232).

An advanced genetics course emphasizing the molecular basis of gene structure and function in the context of modern approaches to the genetics of humans and model organisms.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences specialization areas: PHNB, MICB, CEBG, GENB and CMBG.

0101	Stephen Mount TuTh 11:00am - 12:15pm	Seats (Total: 90) BPS 1250
0201	Leslie Pick TuTh 9:30am - 10:45am	Seats (Total: 90) PLS 1140
SG91	Ryan Marcheschi MW 1:00pm - 2:15pm	Seats (Total: 40) BLD2 3012
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

BSCI411 **Bioinformatics and Integrated Genomics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.

Computational methods for the study of biological sequence data in comparative biology and evolution. Analysis of genome content and organization. Database searching, pairwise and multiple sequence alignment, phylogenetic, methods, pattern recognition, and functional inference. Functional and comparative genomics approaches.

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

0101	Najib El-Sayed	Seats (Total: 25)	
	MWF 10:00am - 10:50am M 2:00pm - 5:00pm	MCB 1207 PLS 1121	Lab
0102	Najib El-Sayed	Seats (Total: 25)	
	MWF 10:00am - 10:50am W 2:00pm - 5:00pm	MCB 1207 PLS 1121	Lab

BSCI414 **Recombinant DNA Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222.

An advanced course offering hands-on experience in performing recombinant DNA experiments. All current molecular biology techniques used for cloning prokaryotic genes, analyzing the gene products, and modifying the genes will be performed. Techniques include isolation of DNA, use of restriction enzymes; cloning procedures, PCR analysis, and Southern hybridizations. Lecture material focuses on interpretation of results generated in the laboratory.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Caren Chang	Seats (Total: 18)	
	TuTh 12:30pm - 4:30pm	MCB 1135	Lab

BSCI415 **Molecular Genetics Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI410. Restriction: Junior standing or higher. Credit only granted for: BSCI348G or BSCI415. Formerly: BSCI348G.

Problem solving laboratory organized around extended projects that employ different approaches toward linking gene and function.

(Sponsoring Dept.: CBMG). Specialization Areas: CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	David Straney	Seats (Total: 20)	
	TuTh 2:00pm - 5:00pm	HJP 2226	Lab

BSCI416 **Human Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in BSCI410. Recommended: BSCI330.

Approaches to human genetics and applications to biology and medicine focusing on specific human genetic topics using primary research papers as the main resource.

Contact department for information to register for this course.

BSCI420 **Cell Biology Lectures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.

Molecular and biochemical bases of cellular organization and function in eukaryotes.

(Sponsoring Dept: BIOL). Specialization Areas: PHNB, CEBG, and GENB.

0101	Julia Marre	Seats (Total: 55)	
	TuTh 12:30pm - 1:45pm	HJP 2242	

BSCI424 **Pathogenic Microbiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI223.

The role of bacteria and fungi in the diseases of humans with emphasis upon the differentiation and culture of microorganisms, types of disease, modes of disease transmission, prophylactic, therapeutic, and epidemiological aspects.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: MICB and GENB (Category 2). Students must pay a $40.00 laboratory materials fee.

0101	Kenneth Frauwirth, Volker Briken TuTh 11:00am - 11:50am MW 9:00am - 10:50am	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0103	Volker Briken, Kenneth Frauwirth TuTh 11:00am - 11:50am MW 1:00pm - 2:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0104	Volker Briken, Kenneth Frauwirth TuTh 11:00am - 11:50am MW 3:00pm - 4:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab

BSCI430 **Developmental Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330.

Structural, functional and regulatory events and mechanisms that operate during development to produce an integrated, multicellular organism composed of a multitude of differentiated cell types.

0101	William Jeffery TuTh 2:00pm - 3:15pm	Seats (Total: 30) BPS 1228

BSCI437 **General Virology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: GENB, MICB and CEBG.

0101	Margaret Scull, Jonathan Dinman MWF 11:00am - 11:50am	Seats (Total: 60) BPS 1243

BSCI440 **Mammalian Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. BSCI 440 is a lecture/discussion format course. The laboratory is offered separately as BSCI 441.

0101	Joshua Singer MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) ESJ 0224 BPS 0283	Discussion
0102	Joshua Singer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) ESJ 0224 BPS 1236	Discussion
0103	Joshua Singer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) ESJ 0224 BPS 1238	Discussion
0104	Joshua Singer MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 30) ESJ 0224 BPS 0283	Discussion
0106	Joshua Singer MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) ESJ 0224 BPS 1228	Discussion
0107	Joshua Singer MWF 10:00am - 10:50am Tu 8:00am - 9:50am	Seats (Total: 30) ESJ 0224 BPS 1232	Discussion
0108	Joshua Singer MWF 10:00am - 10:50am Th 8:00am - 9:50am	Seats (Total: 30) ESJ 0224 BPS 1228	Discussion

BSCI441 **Mammalian Physiology Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI440.

Laboratory exercises in experimental mammalian physiology.

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Hilary Bierman M 12:00pm - 12:50pm M 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab
0102	Hilary Bierman M 12:00pm - 12:50pm Tu 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab
0103	Hilary Bierman M 12:00pm - 12:50pm W 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab
0104	Hilary Bierman M 12:00pm - 12:50pm Th 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab

BSCI443 **Microbial Physiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI223. And minimum grade of C- in BCHM461; or minimum grade of C- in BCHM463.

Microbial cellular and population growth. Fermentation metabolism, physiology of anaerobiosis, and energy conservation and transformation in bacterial membranes. Efficiency of energy utilization for growth. Membrane structure and transport. Bacterial chemotaxis. Regulation of bacterial chromosome replication, RNA and protein synthesis. Control of metabolic pathways.

0101	Steven Hutcheson MW 11:00am - 12:15pm	Seats (Total: 50) MCB 1207	

BSCI447 **General Endocrinology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and dysfunctions of the endocrine system with special reference to mammals.

(Sponsoring DEPT.: BIOL). Specialization Areas: PHNB and GENB.

0101	Justicia Opoku-Edusei MWF 10:00am - 10:50am	Seats (Total: 70) BPS 1243	

BSCI452 Diseases of the Nervous System

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI330; and minimum grade of C- in BSCI353. Also offered as: NACS728, BIOL708. Credit only granted for: BSCI452, BSCI338N, BIOL708E, or NACS728N. Formerly: BSCI338N.

An advanced course covering the neuroanatomy, function, and organization of the nervous system and its implication for pathology and disease.

0101	Quentin Gaudry TuTh 12:30pm - 1:45pm	Seats (Total: 35) PLS 1130	

BSCI454 Neurobiology Laboratory

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI330; and must have completed or be concurrently enrolled in BSCI353; and must have completed or be concurrently enrolled in PHYS122, PHYS132, or PHYS142.

Basic neuroanatomical techniques, intracellular and extracellular recordings of electrical potentials from nerve and muscle.

(Sponsoring Dept.: BIOL). Specialization areas: CEBG, PHNB, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Hilary Bierman M 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0102	Hilary Bierman Tu 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab

0103	Hilary Bierman W 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab

BSCI467 **Freshwater Biology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of CMNS-Biological Sciences UG Program.

Biology and ecology of freshwater invertebrates in lotic and lentic habitats, their adaptation to aquatic life, their function in aquatic ecosystems, and their relationship to environmental deterioration. Laboratory will include field trips, demonstrations, and identifications.

Specialization Areas: ECEV and GENB. There is a $40.00 lab fee for this course.

0101	William Lamp MWF 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 24) BPS 0283 PLS 1161	Lab
0102	William Lamp MWF 1:00pm - 1:50pm Th 2:00pm - 5:00pm	Seats (Total: 24) BPS 0283 PLS 1161	Lab

BSCI471 **Molecular Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biology department.

Patterns of DNA sequence variation within and between species, caused b nucleotide changes and the movement of transposable elements. Theories of molecular evolution, such as the neutral theory. Molecular clock hypothesis: its importance as a practical empirical tool in molecular genetics and systematics and its theoretical foundation.

0101	Michael Cummings TuTh 12:30pm - 1:45pm	Seats (Total: 25) BPS 1238	

BSCI497 **Insect Pests of Ornamentals and Turf**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

The recognition, biology and management of insects and mites injurious to ornamental shrubs, trees, greenhouse crops, and turf. Emphasis on Integrated Pest Management (IPM).

0101	Paula Shrewsbury, Rebeccah Waterworth TuTh 9:30am - 10:45am M 1:00pm - 4:00pm	Seats (Total: 24) PLS 1111 PLS 1161	 Lab

BSCV CIVICUS Fall 2017

BSCV181 **Civicus Student and the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Freshman standing; and must be in the Civicus program. Credit only granted for: BSOS181 or BSCV181. Formerly: BSOS181.

Knowledge and skills designed to utilize CIVICUS to enhance the college experience and preparation for civic engagement.

0101	Julie Randolph, Gwen Hambright M 2:00pm - 3:45pm	Seats (Total: 27) SOM 0101
0201	Gwen Hambright M 12:00pm - 1:45pm	Seats (Total: 26) SOM 0101

BSCV191 **Introduction to Civicus**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Civicus program. Credit only granted for: BSCV191 or BSOS191. Formerly: BSOS191.

An introduction to the social and historical foundations of a civil society. An examination of the roles of individuals, groups, social institutions and community services.

0101	Korey Rothman TuTh 9:30am - 10:45am	Seats (Total: 27) SOM 0101
0201	Korey Rothman TuTh 2:00pm - 3:15pm	Seats (Total: 27) SOM 0101

BSCV301 **Leadership in a Multicultural Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCV191, SOCY105, and BSCV181. Restriction: Sophomore standing or higher. Credit only granted for: BSOS301 or BSCV301. Formerly: BSOS301.

A study and application of skills, historical context, theories, and concepts for constructive leadership in a pluralistic, multicultural, and diverse society. Social science methodologies and theories will provide the structure for the study of contemporary social problems, civil society issues, and leadership practices.

0201	Nicole Mehta TuTh 11:00am - 12:15pm	Seats (Total: 25) SOM 0101
0301	Julie Randolph TuTh 12:30pm - 1:45pm	Seats (Total: 25) SOM 0101

BSGC Global Communities Fall 2017

BSGC100 **The Student in the University: Global Communities**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be enrolled in Global Communities Living-Learning Program. By Permission Only (BPO).

Students will develop a sense of community within the program, become familiar with campus resources, gain skills and information to prepare for the Global Experience Semester, and explore the surrounding international community.

0101	Kenya Graham Tu 9:30am - 10:45am	Seats (Total: 22) Location: TBA
0102	Natalie Vinski Ibrahim Tu 11:00am - 12:15pm	Seats (Total: 22) Location: TBA
0103	Jazmin Pichardo Tu 2:00pm - 3:15pm	Seats (Total: 22) Location: TBA
0104	Jeremy Gombin-Sperling Tu 12:30pm - 1:45pm	Seats (Total: 21) Location: TBA

BSGC101 **Globalization**

(Perm req)

Credits: 3 Grading Method: Regular CORE: SB General Education: DSHS, SCIS

Restriction: Must be in Global Communities Living-Learning program.

An interdisciplinary exploration of the historical evolution and contemporary significance of growing interconnectedness in the world. We debate different perspectives on globalization and its impact on social, political, economic and cultural issues.

0101	Virginia Haufler Tu 3:30pm - 4:45pm Th 9:30am - 10:45am	Seats (Total: 20) TWS 1310 Location: TBA	Discussion
0102	Virginia Haufler Tu 3:30pm - 4:45pm Th 11:00am - 12:15pm	Seats (Total: 21) TWS 1310 Location: TBA	Discussion
0103	Virginia Haufler Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	Seats (Total: 20) TWS 1310 Location: TBA	Discussion
0104	Virginia Haufler Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 17) TWS 1310 Location: TBA	Discussion

BSGC302 **BSGC 302 Capstone: Global Connections**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Global Communities Living-Learning program. By permission only (BPO). Additional information: This course is limited to second-year students in the Global Communities Living-Learning Program who have completed or are in the midst of completing their Global Experience requirement.

Final component of the Global Communities curriculum. The course connects the global experience with previous BSGC coursework.

0101	Virginia Haufler Class time/details on ELMs	Seats (Total: 10) ONLINE	

BSGC399 **Topical Investigations in Global Communities**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

0101	Virginia Haufler	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

BSOS Behavioral and Social Sciences Fall 2017

BSOS248A **Leadership Seminar I; Ambassadors**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248D **Leadership Seminar I; Dean's Student Advisory Council**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248P **Leadership Seminar I; Peer Mentor Seminar I**

(Perm req)

Credits: 1 Grading Method: Regular

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS258D **Leadership Practicum I; Dean's Student Advisory Council**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS258L **Leadership Practicum I; DSAC Officers**

(Perm req)

Credits: 1 Grading Method: Regular

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Repeatable to 9 credits.

Contact department for information to register for this course.

BSOS258P **Leadership Practicum I; Peer Mentors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS288I **Special Topics in Behavioral and Social Sciences; Internship Practicum in the Social Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Contact department for information to register for this course.

BSOS288V **Special Topics in Behavioral and Social Sciences; Technology Apprentice Program**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Restricted to BSOS students. Technical skills and pedagogical basics needed to support faculty uses of technology in the classroom. Web publishing, academic website development, creating/using digitized media, electronic presentation tools, and discussion group facilitation. The class will usually meet face-to-face for two and one-half hours per week; however, three or four times per semester, the class will meet online instead. Students will interact and be assessed on their participation in an online environment. For permission to enroll or more information, please contact margaret Weber at mweber@bsos.umd.edu.

Contact department for information to register for this course.

BSOS289I **Playing the Market: Managing Risk and Using Technical Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP, SCIS

Through readings, class discussion, guest lecturers, anda simulated portfolio construction and class trading competition, this course will introduce students to investing and trading, with special emphasis on the field of technical analysis. The technical approach to the markets focuses largelly on the analysis of price and volume patterns as indicators of stock trends. Students will learn how to evaluate companies using internet sources and a technical analysis program. Each student will be expected to use a set of trading rules to apply to theirtrading ofa virtual $100,000 margin portfolio and to manage risk. Students will develop an accurate view of the risks of benefits of trading stocks and an appreciation of the complexities involved in the technical approach to trading stocks. The course assumes no prior knowledge of the stock market.

FC01	Eric Wish, David McCandlish	Seats (Total: 119)
	F 9:30am - 12:30pm	SHM 2102
	Restricted to students in Freshmen Connection.	

BSOS355 **Social Sciences Internship Practicum**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.

BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.

Contact department for information to register for this course.

BSOS358A **Leadership Practicum II; Ambassadors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358P **Leadership Practicum II; Peer Mentors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

BSOS388A **Behavioral and Social Sciences Special Topics; Editorial Skills and Research Methods**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388E **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388F **Behavioral and Social Sciences Special Topics; Innovation in the Public Sector**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email bsos-ugdean@umd.edu with your name, UID and brief statement of why this course is of interest of you.

0101	Kenneth Ulman, Samantha O'Neil	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

BSOS388M **Behavioral and Social Sciences Special Topics; Social Science Independent Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388P **Behavioral and Social Sciences Special Topics; PULSAR Research Seminar; Maryland Language Science Center**

(Perm req)

Credits: 1

Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

For students in the PULSAR program.

Contact department for information to register for this course.

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388R **Behavioral and Social Sciences Special Topics; PULSAR Research Practicum; Maryland Language Science Center**

(Perm req)

Credits: 1-3

Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

For students in the PULSAR program.

Contact department for information to register for this course.

BSOS399 **Directed Study in Behavioral and Social Sciences**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399B **Directed Study in Behavioral and Social Sciences; Directed Research in International Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399P **Directed Study in Behavioral and Social Sciences; Undergraduate Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399T **Directed Study in Behavioral and Social Sciences; Civicus Teaching Assistant**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS448C **Teaching Assistant Practicum; Civicus**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448I **Teaching Assistant Practicum; Internship**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448T **Teaching Assistant Practicum; (UNIV)**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448W **Teaching Assistant Practicum; Global Communities**

(Perm req)

Credits: 3 Grading Method: Regular

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Repeatable to 6 credits, if content differs.

0101	Virginia Haufler	Seats (Total: 5)
	Contact instructor or department for details.	

BSOS678C **Special Topics in Justice Leadership; Criminal Procedure Law**

Credits: 3 Grading Method: Regular, Audit

Crime and Criminal Justice in Vietnam. Issues that will be focused on the present situation of crime in Vietnam; causes and conditions of criminal activities; include crime forecasting and crime prevention in Vietnam. Also, provides comprehensive overview on the Criminal Justice System in Vietnam and relations among authorities.

Contact department for information to register for this course.

BSST Terrorism Studies Fall 2017

BSST240 **Understanding The Principles and Perils of CBRN Weapons**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with BSST241), DSNS

Additional information: If taken in the same term as BSST241 these courses will count for General Education Natural Sciences Lab.

Explores the 'dark side' of scientific applications. Students will gain an understanding of CBRN Weapons, through the exploration of the scientific method, and certain fundamental principles of chemistry, biology, and physics. Students will also learn how to test hypotheses, use basic statistics, interpret results, and apply their new knowledge through discussions of practical applications in the domains of public health, emergency management, epidemiology, and threat assessment. Bringing these fields together in one class will allow students to better understand the use of and threat from CBRN weapons in terrorism.

FC01	Steve Sin, Cory Davenport, Gary Ackerman	Seats (Total: 20)
	TuTh 6:00pm - 7:15pm	JMZ 3203
	Restricted to students in Freshmen Connection.	

BSST241 **Understanding the Principles and Perils of CBRN Weapons (Lab)**

Credits: 1 Grading Method: Regular

Corequisite: BSST240. Additional information: This is an optional 1-credit lab course offered in coordination with BSST240. If taken in the same term as BSST240 these courses will count for General Education Natural Sciences Lab.

An exploration of the threat of Chemical, Biological, Radiological, and Nuclear (CBRN) weapons aimed to provide students with a basic, multidisciplinary, natural science foundation in chemistry, biology, and physics.

FC01	Gary Ackerman, Cory Davenport, Steve Sin	Seats (Total: 20)	
	F 10:00am - 12:30pm	ATL 1410	Lab
	Restricted to students in Freshmen Connection.		

BSST288R **Special Topics in Terrorism Studies; Special Topics in Terrorism Studies: Global Terrorism in the Twentieth and Twenty-First Century**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

0101	Howard Smead	Seats (Total: 5)
	M 4:00pm - 6:30pm	TLF 1103
	To obtain permission to register for this course, send a copy of your resume and unofficial transcript toeducation@start.umd.edu. Include BSST288R in the subject line of your email.	

BSST327 **Introduction to Terrorism and the Terrorist Threat**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: It is recommended that BSST330 be taken in the same semester as as BSST329. Restriction: Restricted to students enrolled in the Global Terrorism Minor (#BS07). Credit only granted for: BSST327 OR BSST399K. Formerly: BSST399K.

This course focuses on bringing current events and policy issues related to terrorism and counterterrorism, as they are discussed in mass media, into the dialogue with academic theories and research. Through a discussion-based seminar, students will bring current, terrorism-related events to classroom discussion, where they will consider the media-framed current events in relation to academic research. Students will be continually challenged to draw connections between terrorism-related events in the news and relevant academic research.

0101	William Braniff	Seats (Total: 35)
	Th 3:30pm - 5:10pm	Location: TBA
	Meets bi-weekly at START Office located at 8400 Baltimore Avenue, Suite 250.	

BSST330 **Terrorist Motivations and Behaviors**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Global Terrorism minor; or special permission available for students in other Global Studies minors.

Explores theories explaining the formation of terrorist groups and the motivations behind terrorist behavior, building upon theories from social psychology, sociology, political science, criminology, and history.

0101	Amy Pate	Seats (Total: 40)
	Tu 3:30pm - 6:15pm	TYD 2102
	Restricted to students in the Global Terrorism Minor(#BS07); to obtain permission email education@start.umd.edu.	
0201	Amy Pate	Seats (Total: 5)
	Tu 3:30pm - 6:15pm	TYD 2102
	Restricted to students in one of the following minors: International Development & Conflict Mgmt minor (#BS02), Global Poverty minor (#AG06), or International Engineering minor (#EN01); to obtain permission email education@start.umd.edu with your name and which Global Studies program in which you are enrolled.	

BSST334 **States of Emergency**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Students will explore the manner in which crises unfold from the perspective of a variety of emergency response disciplines, including: emergency management, law enforcement, intelligence analysis, cyber analysis, risk communication, health and human services, and emergency psychiatry/psychology. Students will participate in a semester-long simulation of an unfolding terrorist attack.

0101	Katherine Izsak Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion
0102	Katherine Izsak Tu 12:30pm - 1:45pm Th 2:00pm - 3:15pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion
0103	Katherine Izsak Tu 12:30pm - 1:45pm Th 3:30pm - 4:45pm	Seats (Total: 40) ESJ 1202 ONLINE	 Discussion

BSST335 **Innovations in Countering Violent Extremism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Credit only granted for: BSST335 or BSST338V. Formerly: BSST338V.

Develop solutions to community-based radicalization through a blend of entrepreneurial, Design Thinking strategies and terrorist disengagement theories. Students will design original programs targeting real-world, at-risk communities and present their programs to a panel of experts.

0101	Peter Weinberger M 2:00pm - 4:45pm	Seats (Total: 31) ESJ 1215
0201	Peter Weinberger M 2:00pm - 4:45pm	Seats (Total: 5) ESJ 1215

BSST338F **Special Topics in Terrorism Studies; Media in War and Crisis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338G **Special Topics in Terrorism Studies; Ideology and Social Conditions in the Making of Terrorism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

0101	Mansoor Moaddel	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PLS 1172

BSST338I **Special Topics in Terrorism Studies; Arab-Israeli Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338N **Special Topics in Terrorism Studies; Arms Control in the Nuclear Realm**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338R **Special Topics in Terrorism Studies; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST340 **Oral Communication for National Security Careers**

Credits: 3 Grading Method: Regular General Education: FSOC

Credit only granted for: BSST340 or BSST338E. Formerly: BSST338E.

Students will discuss perspectives on strategic communication and national security, while discussing and practicing public speaking skills and developing proficiency in three genres of security-related briefings. Students will work with the technical, scientific, and/or specialized data, vocabularies, processes, and products of the academic disciplines and/or fields of expertise relevant to national and international security careers.

FC01	Holly Roberts	Seats (Total: 25)
	MW 6:00pm - 7:15pm	KNI 1103
	Restricted to students in Freshmen Connection.	

BSST386 **Experiential Learning in Terrorism Studies**

(Perm req)

Credits: 1-5 Grading Method: Regular, Pass-Fail

Repeatable to 10 credits.

This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.

0101	Elizabeth Wasden	Seats (Total: 35)
	Class time/details on ELMs	ONLINE
	Registration by Departmental Permission Only	

BSST399C **Individual Study in Terrorism Studies; Community Resilience Engagement and Dialogue Fellowship Career Development Part 4**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Restricted to students in the Community, Resilience, Engagement, and Dialogue Career Development Program.

0101	Elizabeth Wasden	Seats (Total: 4)
	Class time/details on ELMs	ONLINE

BSST399G **Individual Study in Terrorism Studies; Independent Readings in Terrorism**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0101	Elizabeth Wasden Contact instructor or department for details.	Seats (Total: 1)

BSST399T **Individual Study in Terrorism Studies; Teaching Terrorism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0201	Amy Pate Contact instructor or department for details.	Seats (Total: 3)
0301	Mansoor Moaddel Contact instructor or department for details.	Seats (Total: 3)
0401	Katherine Izsak Contact instructor or department for details.	Seats (Total: 6)
0501	Peter Weinberger Contact instructor or department for details.	Seats (Total: 2)

BSST630 **Motivations and Intents of Terrorists and Terrorist Groups**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program. Credit only granted for: BSOS630 or BSST630. Formerly: BSOS630.

Examines motivations for terrorism from an interdisciplinary perspective, with emphasis on political and applied social psychological perspective. Topics may include: defining terrorism; preconditions; recruitment; domestic and international terrorism; and case studies and analysis of terrorist organizations.

ST01	Cory Davenport **Meets August 28, 2017 - December 11, 2017** W 6:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 35) ONLINE ONLINE

BSST632 **Development of Counterterrorism Policies and Programs**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program; or permission of department. Credit only granted for: BSOS632 or BSST632. Formerly: BSOS632.

Addresses the formulation, adoption, effectiveness, impacts, and afterlives of counterterrorism policies and programs.

Admission to Terrorism Analysis Graduate Certificate Program required.

ST01	Peter Weinberger **Meets August 28, 2017 - December 11, 2017** Tu 6:30pm - 9:00pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUAC Accounting and Information Assurance — Fall 2017

BUAC743 **Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

BA01	Brent Solomon **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) Location: TBA
DC01	Emre Carr **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:20pm	Seats (Total: 45) DC C4

DC06	Nicholas Seybert **Meets August 26, 2017 - October 14, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 45) DC C4 ONLINE

BUAC758A **Special Topics in Accounting and Information Assurance; Accounting for Social Value in Corporate America**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

BA01	Samuel Handwerger **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) BA 103

BUAC758C **Special Topics in Accounting and Information Assurance; Financial Statement Analysis for Accountants and Auditors**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Hanna Lee **Meets August 28, 2017 - October 14, 2017** TuTh 2:00pm - 3:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0502	Hanna Lee **Meets August 28, 2017 - October 14, 2017** MW 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) TYD 0102

0503	Hanna Lee	Seats (Total: 0)
	Meets August 28, 2017 - October 14, 2017	
	MW 12:00pm - 1:50pm	TYD 0102
	For MS in Accounting students only.	

BUAC758D **Special Topics in Accounting and Information Assurance; Tax VI: State and Local Taxation**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 12:00pm - 1:50pm	VMH 2505
	For MS in Accounting students only.	

BUAC758I **Special Topics in Accounting and Information Assurance; Accounting for Mergers and Acquisitions**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 4:00pm - 5:50pm	VMH 1520
	For MS in Accounting students only.	

BUAC758J **Special Topics in Accounting and Information Assurance; Enterprise Risk Management**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Matthew Gagnon, Alan Siegfried **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1303
0502	Alan Siegfried, Matthew Gagnon **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1303

BUAC758K **Special Topics in Accounting and Information Assurance; Advanced Managerial Accounting and Control Systems**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Tharinda W Ranasinghe **Meets October 23, 2017 - December 14, 2017** TuTh 2:00pm - 3:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0502	Tharinda W Ranasinghe **Meets October 23, 2017 - December 14, 2017** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528
0503	Tharinda W Ranasinghe **Meets October 23, 2017 - December 14, 2017** MW 8:00am - 9:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1511

0504	Tharinda W Ranasinghe **Meets October 23, 2017 - December 14, 2017** MW 2:00pm - 3:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1520

BUAC758L **Special Topics in Accounting and Information Assurance; Intermediate Accounting I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Stephen Brown **Meets August 28, 2017 - October 16, 2017** MW 12:00pm - 1:50pm *For MS in Accounting students only*	Seats (Total: 0) VMH 2505

BUAC758M **Special Topics in Accounting and Information Assurance; Intermediate Accounting II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Stephen Brown **Meets October 23, 2017 - December 14, 2017** MW 12:00pm - 1:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1505

BUAC758N **Special Topics in Accounting and Information Assurance; Estates, Trusts, and Personal Finance Planning**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Thomas Kelley	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 8:00am - 9:50am	VMH 1511
	For MS in Accounting students only.	

BUAC758Q **Special Topics in Accounting and Information Assurance; Research on Accounting and Economic Aspects of Cybersecurity**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Lawrence Gordon	Seats (Total: 36)
	Meets October 23, 2017 - December 14, 2017	
	TuTh 10:00am - 11:50am	VMH 1518
	For MS in Accounting students only.	

BUAC758T **Special Topics in Accounting and Information Assurance; Taxation of Individuals**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Alexander Ruygrok	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 5:00pm - 6:50pm	VMH 1336
	For MS in Accounting students only.	

BUAC758V **Special Topics in Accounting and Information Assurance; Taxation of Corporations and Other Entitites**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger **Meets October 23, 2017 - December 14, 2017** MW 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1518

BUAC759 **Independent Study in Accounting and Information Assurance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in accounting and information assurance.

Contact department for information to register for this course.

BUAC765 **Business Ethics for Accountants and Auditors**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUAC765 or BUAC706.

Considers all facets of business ethics issues within an accounting and auditing context. Ethical theory, corporate social responsibility, and individual decision-making are considered. Some of the applied topics that may be covered in this course include, but are not limited to, intellectual property issues, corporate downsizing, outsourcing, global ethics, crises management, and employment ethics.

0501	James Lager **Meets October 23, 2017 - December 14, 2017** MW 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1333
0502	James Lager **Meets October 23, 2017 - December 14, 2017** TuTh 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1520
0503	Jeffrey Milton **Meets October 23, 2017 - December 14, 2017** TuTh 4:00pm - 6:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1520

0504	Thomas Kelley	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 4:00pm - 6:45pm	VMH 1336
	For MS in Accounting students only.	

BUAC780 **Financial Statement Analysis for Accountants and Auditors**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUAC780 or BUAC707.

Provides a framework for using a firm's financial statements to perform a comprehensive analysis of the firm's operating performance, cash management, and financial position as well as to value the firm and to detect earning management. It includes an overview of the accounting and auditing standard setting framework, and the relevance of U.S. GAAP as well as International Financial Reporting Standards (IFRS) to accounting recognition, measurement, presentation, and disclosure. The course also identifies the analytical relevance of a selected set of more advanced accounting topics (e.g., valuing employee stock options).

0501	Irene Kim	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 8:00am - 10:45am	VMH 1418
	For MS in Accounting students only.	

BUAC784 **Business Communications for Accountants and Auditors**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUAC784 or BUAC712.

Focuses on the art of communication and its effects on people, organizations, and other stakeholders. The course will focus on two aspects of business communications: persuasion and effective presentations. The objective for the persuasion sessions is to have students improve upon their day-to-day oral business communications skills. This will be accomplished as participants learn to tailor each communication to the person or people with whom they are speaking.

0501	Howard Weiner **Meets August 28, 2017 - October 16, 2017** MW 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 2505
0502	Howard Weiner **Meets August 28, 2017 - October 16, 2017** MW 12:00pm - 1:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1505
0503	Eugene Cantor **Meets August 28, 2017 - October 14, 2017** TuTh 8:00am - 9:50am *MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0504	Eugene Cantor **Meets August 28, 2017 - October 14, 2017** TuTh 6:00pm - 7:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 2505

BUAC792 **Forensic Accounting/Auditing**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUAC792 or BUAC714.

Provides a theoretical background and practical application of fraud examinations and corporate investigations. Fraud prevention, detection, investigation, and related matters such as courtroom procedures will be included. Also considered are topics such as FCPA and securities fraud. A wide variety of teaching tools are used.

0501	Ariel Ramirez **Meets August 28, 2017 - October 14, 2017** TuTh 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

0502	Ariel Ramirez **Meets August 28, 2017 - October 16, 2017** MW 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1333
0503	Leonard Block **Meets August 28, 2017 - October 14, 2017** TuTh 4:00pm - 6:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1528

BUDT Decision and Information Technologies — Fall 2017

BUDT732 **Decision Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT732 or BUDT732. Formerly: BMGT732.

Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.

BA01	Robert Hoffman **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 45) BA 103
DC01	Arnold Greenland **Meets October 23, 2017 - December 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) DC C1

BUDT733 **Data Mining and Predictive Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT733 or BUDT733. Formerly: BMGT733.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

DC01	Arnold Greenland **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) DC C1
DC06	Wei Chen **Meets October 21, 2017 - December 9, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 45) DC C1 ONLINE

BUDT758A **Special Topics in Decision, Operations and Information Technologies; Business Communication**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Christine Schaaf **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1333
0502	Christine Schaaf **Meets October 23, 2017 - December 14, 2017** Tu 6:25pm - 10:00pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1333

BUDT758B **Special Topics in Decision, Operations and Information Technologies; Big Data**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Anand Gopal, Guodong Gao **Meets August 28, 2017 - December 14, 2017** MW 12:30pm - 1:45pm *For MS in Information Systems students only.*	Seats (Total: 45) VMH 1335

BUDT758C **Special Topics in Decision, Operations and Information Technologies; Big Data**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

DC01	Guodong Gao, Anand Gopal **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 45) DC C1

BUDT758I **Special Topics in Decision, Operations and Information Technologies; Applied Finance Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Leonard Mills **Meets August 28, 2017 - December 5, 2017** M 7:00pm - 9:45pm *For MS in Information Systems students only.*	Seats (Total: 45) VMH 1528

BUDT758J **Special Topics in Decision, Operations and Information Technologies; Management of Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Barnet Corwin	Seats (Total: 35)
	Meets August 28, 2017 - December 14, 2017	
	W 5:00pm - 7:45pm	VMH 1206
	For MS in Information Systems students only.	

BUDT758M **Special Topics in Decision, Operations and Information Technologies; Healthcare Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Neil Sehgal	Seats (Total: 45)
	Meets August 28, 2017 - December 14, 2017	
	MW 8:00pm - 9:15pm	VMH 1206
	For MS in Information Systems students only.	

BUDT758P **Special Topics in Decision, Operations and Information Technologies; Decision Analytics**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Ilya Ryzhov	Seats (Total: 45)
	Meets August 28, 2017 - December 14, 2017	
	TuTh 8:00am - 9:15am	VMH 1520
	For MS in Information Systems students only.	
0502	Ilya Ryzhov	Seats (Total: 45)
	Meets August 28, 2017 - December 14, 2017	
	TuTh 9:30am - 10:45am	VMH 1520
	For MS in Information Systems students only.	

0503	Raghu Raghavan	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	MW 5:00pm - 6:15pm	VMH 1333
	For MS in Business Analytics students only.	

BUDT758R **Special Topics in Decision, Operations and Information Technologies; Operations and Supply Chain Strategy**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

GS01	Zhi-Long Chen	Seats (Total: 45)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	BLD2 2032

BUDT758T **Special Topics in Decision, Operations and Information Technologies; Data Mining & Predictive Analysis**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

For MS in Information Systems students only.

0501	Kislaya Prasad	Seats (Total: 38)
	Meets August 28, 2017 - December 14, 2017	
	TuTh 11:00am - 12:15pm	VMH 1520
	For MS in Information Systems students only.	

BUDT758Y **Special Topics in Decision, Operations and Information Technologies; Database Management Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Woei-Jyh Lee **Meets August 28, 2017 - December 14, 2017** MW 2:00pm - 3:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0502	Woei-Jyh Lee **Meets August 28, 2017 - December 14, 2017** MW 3:30pm - 4:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0503	Woei-Jyh Lee **Meets August 28, 2017 - December 14, 2017** W 7:00pm - 9:40pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1528

BUDT758Z **Special Topics in Decision, Operations and Information Technologies; Data Networks and Infrastructures**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Krishnan Balakrishnan **Meets August 28, 2017 - December 14, 2017** TuTh 3:30pm - 4:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0502	Krishnan Balakrishnan **Meets August 28, 2017 - December 14, 2017** TuTh 5:00pm - 6:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333

BUDT759 **Independent Study in Decision and Information Technologies**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.

BUDT775 **Pricing and Revenue Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUDT758D or BUDT775. Formerly: BUDT758D.

Specialized course on pricing and revenue management (PRM) that provide students with tools and principles, drawn from several disciplines (Operations, Microeconomics, Decision Modeling, Statistics, Marketing, IS) to make effective pricing decisions. Topics covered include economics of pricing, strategy and tactics of PRM, pricing optimization, differentiated pricing, dynamic pricing, mark-down pricing, legal and ethical issues in models/methods used in making effective PRM decisions and managerial or organizational factors that hold the key to success in execution of PRM.

DC01	Yi Xu	Seats (Total: 45)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	DC C1
	The Final will be held on Tuesday, December 18.	

BUFN Finance Fall 2017

BUFN738 **Investment Fund Management**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with th opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

DC06	Gurdip Bakshi	Seats (Total: 45)
	Meets August 26, 2017 - December 9, 2017	
	Sa 8:50am - 1:00pm	DC C5
	Meets 8/26, 9/9, 9/23, 10/7, 10/21, 11/4, 11/18, 12/2, 12/9.	

BUFN740 **Capital Markets**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN740 or BUFN620.

Designed to deepen the foundations necessary to finance focused students, especially those intending to specialize in the quantitative areas of finance including investments, fixed income, and financial engineering.

0502	Yajun Wang **Meets October 23, 2017 - December 14, 2017** MW 2:00pm - 3:50pm *For MS in Finance Students only.*	Seats (Total: 0) VMH 1528
DC01	Geoffrey Tate **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) DC C1
DC06	Ceyed Baiju **Meets August 26, 2017 - October 14, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 45) DC C1 ONLINE
GS01	Geoffrey Tate **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUFN750 **Valuation in Corporate Finance**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN630, BUFN714, BUFN750, BUFN753, or BMGT730. Formerly: BUFN714.

An advanced topics course in Corporate Finance dealing with valuation. Main topics will be, building pro forma statements, cost of capital, using ratios and comparables to value projects and firms, dicounted cash flow valuations, WACC and APV methods of valuation and Real Option Valuations.

DC01	James Seward **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) DC C1

BUFN751 **Financial Strategy For Corporations**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN751 or BUFN710.

An advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.

BA01	James Seward **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) BA 103
DC06	James Seward **Meets October 21, 2017 - December 9, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 45) DC C2 ONLINE
GS01	James Seward **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2052

BUFN752 **Financial Restructuring**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN712, BUFN716, BUFN752 or BUFN754. Formerly: BUFN716.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0501	Richmond Mathews **Meets August 28, 2017 - October 16, 2017** MW 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
WW01	Richmond Mathews **Meets September 25, 2017 - November 2, 2017** M 4:30pm - 6:00pm Class time/details on ELMs *Synchronous online meetings 9/25, 10/2, 10/9, 10/23, 10/30.*	Seats (Total: 25) ONLINE ONLINE

BUFN754 **Corporate Risk Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN712, BUFN716, BUFN752 or BUFN754.

Surveys the theory and practice of financial risk identification, measurement, and mitigation at financial and non-financial firms. Topics will include hedging with options and futures, interest rate risk management, Value-at-Risk (VaR), Cashflow-at-Risk (CaR), Earnings-at-Risk (EaR), credit risk, equity risk, commodities risk, exchange rate risk, and lessons from risk management disasters.

0501	Clifford Rossi **Meets October 23, 2017 - December 14, 2017** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 2505
0502	Clifford Rossi **Meets October 23, 2017 - December 14, 2017** MW 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN755 **Entrepreneurial Finance and Private Equity**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN755 or BUFN717.

An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

DC01	Andrew Sherman	Seats (Total: 45)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	DC C2

BUFN758F **Special Topics in Finance; Experiential Learning Project**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN758J **Special Topics in Finance; Financial Mathematics**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0502	Gurdip Bakshi	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	TuTh 4:00pm - 5:50pm	VMH 1528
	For Master of Quantitative Finance students only.	

0504	Gurdip Bakshi **Meets October 23, 2017 - December 14, 2017** W 6:25pm - 10:00pm *For Master of Quantitative Finance students only.*	Seats (Total: 0) VMH 1520

BUFN758N **Special Topics in Finance; Financial Econometrics I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Alberto Rossi **Meets August 28, 2017 - October 16, 2017** MW 8:00am - 9:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1528
0502	Alberto Rossi **Meets August 28, 2017 - October 16, 2017** MW 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1528
0503	Alberto Rossi **Meets August 28, 2017 - October 16, 2017** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1528

BUFN758O **Special Topics in Finance; Financial Econometrics II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Alberto Rossi, Liu Yang **Meets October 23, 2017 - December 14, 2017** TuTh 12:00pm - 1:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

0502	Liu Yang, Alberto Rossi **Meets October 23, 2017 - December 14, 2017** TuTh 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0503	Alberto Rossi, Liu Yang **Meets October 23, 2017 - December 14, 2017** TuTh 2:00pm - 3:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN758P **Special Topics in Finance; Advanced Capital Markets**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Yajun Wang **Meets October 23, 2017 - December 14, 2017** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1528
0502	Yajun Wang **Meets October 23, 2017 - December 14, 2017** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1528

BUFN758V **Special Topics in Finance; Advanced Equity Modeling**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge **Meets August 28, 2017 - October 16, 2017** MW 7:00pm - 8:50pm *For Master of Finance students only.*	Seats (Total: 18) VMH 1336

BUFN758W **Special Topics in Finance; Applied Equity Modeling**

(Perm req) Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge **Meets October 23, 2017 - December 14, 2017** MW 7:00pm - 8:50pm *For Master of Finance students only.*	Seats (Total: 18) VMH 1336

BUFN758X **Special Topics in Finance; Market Microstructure**

(Perm req) Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Albert Kyle **Meets August 28, 2017 - October 14, 2017** TuTh 4:00pm - 5:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0502	Albert Kyle **Meets August 28, 2017 - October 14, 2017** TuTh 6:00pm - 7:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0503	Albert Kyle **Meets August 28, 2017 - October 14, 2017** TuTh 8:00pm - 9:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN758Z **Special Topics in Finance; Global Equity Fund**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN759 **Independent Study in Finance**

(Perm req) Credits: 1-6 Grading Method: Regular

Independent study for Masters students in finance.

Contact department for information to register for this course.

BUFN760 **Applied Equity Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN730 or BUFN760.

Students will learn to analyze equity securities using the basic EIC (Economy/Industry/Company) framework used in the financial industry, paying special attention to financial statement analysis. Students also will learn the primary valuation techniques used to estimate market values for equity securities.

0501	Sarah Kroncke	Seats (Total: 50)
	Meets October 23, 2017 - December 14, 2017	
	TuTh 12:00pm - 1:50pm	VMH 1528
	For Master of Finance students only.	

BUFN762 **Fixed Income Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN732 or BUFN762.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

0501	Steven Heston	Seats (Total: 0)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	VMH 1528
	For Master of Finance students only.	

DC01	Steven Heston **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) DC C2

BUFN763 **Portfolio Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN734 or BUFN763.

Provides training that is important in understanding the investment process - the buy side of the financial world. Specifically, the objective is to provide graduate-level instruction in the following topics, both in theory and in using financial markets data to test the basic theory and practice of portfolio choice and equilibrium pricing models and their implications for efficient portfolios.

0501	Mark Loewenstein **Meets August 28, 2017 - October 16, 2017** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0502	Mark Loewenstein **Meets August 28, 2017 - October 16, 2017** MW 2:00pm - 3:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1528
0503	Mark Loewenstein **Meets August 28, 2017 - October 16, 2017** MW 4:00pm - 5:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1528

BUFN765 **Fixed Income Derivatives**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN762. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN765 or BUFN744.

Surveys fixed income assets and related securities such as Exchange-traded bond options; bonds with embedded options; floating rate notes; caps, collars, and floors; floating rate notes with embedded options. Also surveys advanced tools for interest-rate and fixed-income portfolio management, including the use of derivative securities, and the application of binomial trees for analysis of options, and a sound understanding of stochastic yield curves.

0501	Haluk Unal **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1335

BUFN766 **Financial Engineering**

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN742 or BUFN766.

Develop Excel and Visual Basic (VBA) models to solve problems related t portfolio management, options valuation, fixed income securities, interest rate processes, and risk management. This course thus bridges theory with the design of algorithms and models that can be directly applied in practice.

0501	Mark Loewenstein **Meets October 23, 2017 - December 14, 2017** MW 10:00am - 11:50am *For Master of Finance students only.*	Seats (Total: 0) VMH 1330
0502	Mark Loewenstein **Meets October 23, 2017 - December 14, 2017** TuTh 4:00pm - 5:50pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1330

BUFN770 **International Investment**

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN721 or BUFN770.

Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategey.

0501	Steven Heston	Seats (Total: 0)
	Meets August 28, 2017 - October 14, 2017	
	TuTh 10:00am - 11:50am	VMH 1335
	For Master of Finance students only.	

BUFN771 **International Corporate and Project Finance**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUFN770. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN724 or (BUFN770 and BUFN771). Formerly: BUFN724.

Continuation of BUFN770. Issues addressed will include captial budgeting, project financing, exhange rate exposure (operating, translation, and transaction), foreign investment strategy, and risk management.

0501	Steven Heston	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 4:00pm - 5:50pm	VMH 1511
	For Master of Finance students only.	

BUFN773 **Institutional Asset Management**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN660, BUFN726, BUFN761 or BUFN773.

Examines how money is managed by organizations such as university endowments, pension funds, mutual funds, hedge funds, and private equity funds. Involves a mixture of finance and economics and emphasizes the incentives professional money managers face within the context of the organizational structure in which they operate. Particular attention is paid to compensation structures and monitoring mechanisms.

0501	Albert Kyle **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1303
0502	Albert Kyle **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm *For Master of Finance students only.*	Seats (Total: 0) VMH 1511

BULM Logistics, Business, and Public Policy — Fall 2017

BULM742 **Global Supply Chain Resources Planning**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with an overall understanding of how firms use an advanced supply chain planning (ASCP) application as an integral part of their materials management process which includes such activities as production planning, materials requirements planning, and distribution requirements planning.

0501	Philip Evers **Meets October 23, 2017 - December 14, 2017** MW 5:00pm - 6:50pm *For MS in Supply Chain Management students only.*	Seats (Total: 31) VMH 2505

BULM758B **Special Topics in Logistics, Business and Public Policy; Supply Chain Strategy**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Martin Dresner	Seats (Total: 0)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	VMH 1336
	For MS in Supply Chain Management students only.	

BULM758J **Special Topics in Logistics, Business and Public Policy; Project Management**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Barnet Corwin	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 4:00pm - 5:50pm	VMH 1511
	For MS in Supply Chain Management students only.	

BULM758K **Special Topics in Logistics, Business and Public Policy; Business Fundamentals for Supply Chain Managers I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Humberto Coronado	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 7:00pm - 8:50pm	VMH 1518
	For MS in Supply Chain Management students only.	

BULM758L **Special Topics in Logistics, Business and Public Policy; Lean Six Sigma for Supply Chain**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Nadya Barnes	Seats (Total: 0)
	Meets August 28, 2017 - October 14, 2017	
	W 6:25pm - 10:00pm	VMH 1330
	For MS in Supply Chain Management students only.	

BULM758Q **Special Topics in Logistics, Business and Public Policy; Business Fundamentals for Supply Chain Managers II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Humberto Coronado	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 7:00pm - 8:50pm	VMH 1518

BULM758V **Special Topics in Logistics, Business and Public Policy; Lean Six Sigma for Supply Chain II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Nadya Barnes	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	W 6:25pm - 10:00pm	VMH 1330
	For MS in Supply Chain Management students only.	

BULM758X **Special Topics in Logistics, Business and Public Policy; Data Models & Decisions I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Arnold Greenland	Seats (Total: 0)
	Meets August 28, 2017 - October 14, 2017	
	TuTh 10:00am - 11:50am	VMH 1511
	For MS in Supply Chain Management students only.	

BULM758Y **Special Topics in Logistics, Business and Public Policy; Data Models & Decisions II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Arnold Greenland **Meets October 23, 2017 - December 14, 2017** TuTh 10:00am - 11:50am	Seats (Total: 0) VMH 1511

BULM759 **Independent Study in Logistics Management**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Logistics Management.

Contact department for information to register for this course.

BUMK Marketing Fall 2017

BUMK701 **Marketing Research Methods**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650 and BUSI630. Credit only granted for: BMGT752 or BUMK701. Formerly: BMGT752.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

BA01	David Ashley **Meets October 23, 2017 - December 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) BA 102
DC06	David Ashley **Meets August 26, 2017 - October 14, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 45) DC C4 ONLINE

BUMK706 **Marketing Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650.

Introduction to modeling tools used to support marketing analysis and decision making. Applications in strategic marketing, marketing segmentation, new product development, sales promotion analysis, pricing, design of marketing mix, sales force allocation, and direct marketing. Spreadsheet driven cases and illustrative readings.

DC01	Michel Wedel	Seats (Total: 45)
	Meets October 23, 2017 - December 14, 2017	
	W 6:25pm - 10:00pm	DC C2

BUMK715 **Consumer Behavior**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT754 or BUMK715. Formerly: BMGT754.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

WW01	Rebecca Ratner	Seats (Total: 25)
	Meets September 25, 2017 - November 2, 2017	
	W 4:30pm - 6:00pm	ONLINE
	Class time/details on ELMs	ONLINE
	Synchronous online meetings 9/27, 10/4, 10/11, 10/25, 11/1.	

BUMK716 **Brand Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Brand names are valuable assets for firms. Effective brand management is critical to maintaining the long-term profitability of products and services. Topics include understanding brands from the customer's perspective, building brand equity, measuring brand equity, leveraging brand equity, managing brand portfolios and managing brands over time.

DC01	Yue Qin **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) DC C2
GS01	Yue Qin **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMK717 **Integrated Marketing Communications**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Marketing communications are a complex but critical component of marketing strategy. Topics include communication tools: advertising, sales promotions, corporation communications, one-on-one or direct marketing, public relations, internet communications, sponsorship/events marketing, and marketing communcation plans: defining objectives, implementing the plan, and measuring communications effectiveness. Achieving integration in the content, look, and feel of all marketing communications is stressed.

DC06	Rosellina Ferraro **Meets October 21, 2017 - December 9, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 45) DC C2 ONLINE

BUMK757 **Marketing Strategy**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Credit only granted for: BMGT757 or BUMK757. Formerly: BMGT757.

A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.

DC01	Elizabeth Sara	Seats (Total: 45)
	Meets August 28, 2017 - October 16, 2017	
	M 6:25pm - 10:00pm	DC C2

BUMK758B **Special Topics in Marketing; Market-Based Management**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	David Godes	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	TuTh 12:30pm - 1:45pm	VMH 1333
	For MS in Marketing Analytics students only.	

BUMK758D **Special Topics in Marketing; Customer Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Rosellina Ferraro	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	MW 2:00pm - 3:15pm	VMH 1202
	For MS in Marketing Analytics students only.	

BUMK758E **Special Topics in Marketing; Statistical Programming**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Lingling Zhang	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	TuTh 2:00pm - 3:15pm	VMH 1333
	For MS in Marketing Analytics students only.	

BUMK758G **Special Topics in Marketing; Business Communication**

(Perm req)

Credits: 1 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Christine Schaaf	Seats (Total: 0)
	Meets October 27, 2017 - December 1, 2017	
	F 10:00am - 1:30pm	VMH 1520
	For MS in Marketing Analytics students only. Meets in VMH 1520 on 10/27 11/3, and 11/17. Meets in VMH 1212 on 12/1.	

BUMK758J **Special Topics in Marketing; Pricing Strategies for Sustainable Competitive Advantage**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

BA01	Fred Katz	Seats (Total: 45)
	Meets August 27, 2017 - October 16, 2017	
	M 6:25pm - 10:00pm	BA 103

BUMK758K **Special Topics in Marketing; Advanced Marketing Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Michel Wedel	Seats (Total: 0)
	Meets August 28, 2017 - December 5, 2017	
	M 4:00pm - 6:45pm	VMH 1330
	For MS in Marketing Analytics students only.	

BUMK758O **Special Topics in Marketing; Digital Marketing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

GS01	Elie Ashery **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMK759 **Independent Study in Marketing**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Marketing.

Contact department for information to register for this course.

BUMO Management and Organization Fall 2017

BUMO714 **Competitive and Collaborative Negotiation**

Credits: 2 Grading Method: Regular

Corequisite: BUMO715. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUMO714 or BMGT700.

Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.

DC01	Rellie Rozin **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) DC C3
DC06	Gosia Langa Basit **Meets October 21, 2017 - December 9, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 31) DC C4 ONLINE

BUMO732 **Entrepreneurship and New Ventures**

Credits: 2 Grading Method: Regular

Credit only granted for: BUMO732 or BUSI660. Formerly: BMGT780.

Provides an introduction to important tools and skills necessary to create and grow a successful new venture. Integrates research findings from a range of different practical and intellectual perspectives, including psychology, sociology, economics, strategic management, and history into practical, hands on lessons for an entrepreneur. Class projects provide the foundations for new, real businesses.

DC01	Jonathan Aberman **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 45) DC C3
DC06	Jonathan Aberman **Meets August 26, 2017 - October 14, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 45) DC C2 ONLINE
GS01	David Kressler **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2052

BUMO756 **Industry Analysis**

Credits: 2 Grading Method: Regular

Recommended: BUSI690. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT792 or BUMO756. Formerly: BMGT792.

Conceptual framework and analytical tools for understanding the dynamic of industry structure. Impacts of past and future attractiveness of the industry on profitability. Developing and applying frameworks to devise competitive strategies in uncertain industries.

BA01	Serguey Braguinsky **Meets October 23, 2017 - December 5, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 45) BA 103

BUMO758A **Special Topics in Management and Organization; Strategic Growth for Emerging Companies**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC06	Jonathan Aberman	Seats (Total: 45)
	Meets October 21, 2017 - December 9, 2017	
	Sa 2:00pm - 6:30pm	DC C1
	Class time/details on ELMs	ONLINE
	Meets 10/21, 11/4, 11/18, 12/2, 12/9 Final. Course meets in a blended format	

BUMO758D **Special Topics in Management and Organization; Social Entrepreneurship**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC01	James Sanders	Seats (Total: 45)
	Meets October 23, 2017 - December 5, 2017	
	Tu 6:25pm - 10:00pm	DC C4

BUMO758G **Special Topics in Management and Organization; Innovation Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

BA01	Clarence Wesley	Seats (Total: 45)
	Meets August 28, 2017 - October 14, 2017	
	W 6:25pm - 10:00pm	BA 103

BUMO758L **Special Topics in Management and Organization; Leadership Development**

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC01	Hui Liao	Seats (Total: 45)
	Meets August 28, 2017 - December 14, 2017	
	Th 6:25pm - 10:00pm	DC C4

BUMO759 **Independent Study in Management and Organization**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in management and organization.

Contact department for information to register for this course.

BUMO767 **Cross-Cultural Communication and Teamwork**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI667 or BUMO767. Formerly: BUSI667.

Provide managers a sound basis for developing such competencies. Specifically, we will develop an understanding of key cultural differences, and how these differences influence the management of individuals, groups, and organizations.

DC01	Ella Washington	Seats (Total: 45)
	Meets October 23, 2017 - December 14, 2017	
	W 6:25pm - 10:00pm	DC C3

BUMO794 **Essentials of Negotiation**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Business and Management (Master's) program. Credit only granted for: BUMO794 or BUAC723.

This highly experiential course will improve students' negotiation skills and capacity to acquire and effectively use bargaining power. By using a variety of assessment tools, feedback sources, skill-building exercises, and exercise debriefings, the class will increase students' negotiating self-confidence and improve their capacity to claim value and achieve win-win solutions to individual, team, and organizational problems. The course is designed to enhance students' negotiating self-confidence and improve students' analytical and decision-making skills (e.g., understanding bargaining zones, knowing when an agreement can be made and when to walk away; learning how to prepare for negotiations), interpersonal skills, creativity (e.g., identifying creative solutions to conflict), and persuasive abilities.

0501	Rellie Rozin	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	Th 6:25pm - 10:00pm	VMH 1336
	For MS in Accounting students only.	

0502	Vijaya Venkataramani **Meets October 23, 2017 - December 14, 2017** TuTh 8:00am - 9:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0503	Rellie Rozin **Meets October 23, 2017 - December 14, 2017** TuTh 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1505
0504	Gosia Langa Basit **Meets October 23, 2017 - December 14, 2017** W 6:25pm - 10:00pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1303

BUSI Part-Time MBA Program Fall 2017

BUSI610 **Introduction to Financial Accounting**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI610, BUAC602, BUFN602, or BMGT602.

Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0501	Progyan Basu **Meets August 28, 2017 - October 14, 2017** TuTh 10:00am - 11:50am *For Master in Finance students only.*	Seats (Total: 35) VMH 1330

0502	Mary Keim **Meets August 28, 2017 - October 14, 2017** TuTh 4:00pm - 5:50pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 2505
BA01	Emanuel Zur **Meets October 23, 2017 - December 5, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Rebecca Hann **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Eugene Cantor **Meets October 21, 2017 - December 9, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 0) DC C3 ONLINE
GS01	Rebecca Hann **Meets October 23, 2017 - December 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI621 **Strategic and Transformational IT**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI620 or BUSI621.

Introduces students to the key issues in managing information technolog (IT) and provides an overview of how major IT applications in today's firms support strategic, opertaional, and tactical decisions. Topics include: synchroizing IT and business strategy; the transformational impacts of IT; evaluating and coping with new technologies; governing, managing, and organizing the IT function including outsourcing/offshoring considerations; assessing the business value of IT and justifying IT projects; and managing IT applications in functional areas to support strategy and business process.

0501	Anand Gopal **Meets October 23, 2017 - December 14, 2017** TuTh 6:00pm - 7:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330
0502	Anand Gopal **Meets October 23, 2017 - December 14, 2017** TuTh 8:00pm - 9:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330

BUSI622 **Managing Digital Business Markets**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

0501	Sivakumar Viswanathan **Meets August 28, 2017 - October 14, 2017** TuTh 12:00pm - 1:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330
0502	Sivakumar Viswanathan **Meets August 28, 2017 - October 14, 2017** TuTh 2:00pm - 3:50pm *For MS in Information Systems studenst only.*	Seats (Total: 0) VMH 1330
GS01	Il-Horn Hann **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUSI630 **Data, Models and Decisions**

(Perm req) Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI630 or BMGT606.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0501	Tunay Tunca **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm *For MS in Business Analytics students only.*	Seats (Total: 0) VMH 1333
0502	Tunay Tunca **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1333

BUSI634 Operations Management

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI634 or BMGT624.

Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.

BA01	Yi Xu **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 50) BA 104
DC01	Yi Xu **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm	Seats (Total: 30) DC C3

DC02	Yi Xu **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 30) DC C2
DC06	Yi Xu **Meets August 26, 2017 - October 14, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 40) DC C2 ONLINE
GS01	Zhi-Long Chen **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 30) BLD2 2032

BUSI640 **Financial Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI640, BUFN610, or BMGT610.

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0501	Laurent Fresard **Meets August 28, 2017 - October 14, 2017** TuTh 12:00pm - 1:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0502	Laurent Fresard **Meets August 28, 2017 - October 14, 2017** TuTh 8:00am - 9:50am *For MS in Finance Students only.*	Seats (Total: 0) VMH 1528

0503	Laurent Fresard **Meets August 28, 2017 - October 14, 2017** TuTh 10:00am - 11:50am *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0504	James Seward **Meets October 23, 2017 - December 14, 2017** TuTh 12:00pm - 1:50pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1505

BUSI650 **Marketing Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI650 or BMGT612.

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

0501	David Diehl **Meets October 23, 2017 - December 14, 2017** TuTh 4:00pm - 5:50pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 2505

BUSI662 **Leadership and Teamwork**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT600, BUSI662, or BUSM600.

Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.

0501	Ella Washington **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1520
BA01	Subrahmaniam Tangirala **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Subrahmaniam Tangirala **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Subrahmaniam Tangirala **Meets August 26, 2017 - October 14, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 0) DC C3 ONLINE
GS01	Subrahmaniam Tangirala **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI672 **Global Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI672 or BMGT740.

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

0501	Thomas Corsi **Meets August 28, 2017 - October 14, 2017** TuTh 12:00pm - 1:50pm *For MS in Supply Chain Management students only.*	Seats (Total: 0) VMH 1505
DC01	Thomas Corsi **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) DC C2

BUSI681 **Managerial Economics and Public Policy**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI681 or BMGT604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0501	Ryan Cooper **Meets October 23, 2017 - December 14, 2017** MW 2:00pm - 3:50pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 3330H
BA01	Robert Windle **Meets August 28, 2017 - October 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Cristian Dezso **Meets August 28, 2017 - October 14, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3

DC06	Jahangir Boroumand **Meets August 26, 2017 - October 14, 2017** Sa 8:30am - 1:00pm Class time/details on ELMs *Meets 8/26, 9/9, 9/23, 10/7, Final 10/14. Blended.*	Seats (Total: 0) DC C3 ONLINE
GS01	Robert Windle **Meets August 28, 2017 - October 14, 2017** W 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI690 **Strategic Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI690 or BMGT614.

Analyze and identify profit opportunities and threats in different industry and competitive environments; Analyze and identify a firm's valuable assets, resources and capabilities and how they might be protected, leveraged, and extended in the market; Learn how to organize your company to be the best prepared to adapt its strategy over time as the market environment changes; and how to use organic growth as well as mergers, acquisitions, joint ventures, alliances, and divestitures to ensure that the firm maintians the proper scale and scope to compete effectively over time.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0501	David Waguespack **Meets October 23, 2017 - December 14, 2017** MW 12:00pm - 1:50pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1528
BA01	David Waguespack **Meets October 23, 2017 - December 14, 2017** Th 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	David Waguespack **Meets October 23, 2017 - December 5, 2017** Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3

DC06	Anil Gupta **Meets October 21, 2017 - December 9, 2017** Sa 2:00pm - 6:30pm Class time/details on ELMs *Meets 10/21, 11/4, 11/18, 12/2, Final 12/9. Blended.*	Seats (Total: 0) DC C3 ONLINE
GS01	Waverly Ding **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 0) BLD2 2032

BUSI758A **Special Topics in Business; Business Communication**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Tricia Homer **Meets August 28, 2017 - October 16, 2017** M 6:25pm - 10:00pm *For MS in Business and Management students only.*	Seats (Total: 0) VMH 1520

BUSI758B **Special Topics in Business; Data Models and Decisions**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Sean Barnes **Meets August 28, 2017 - December 14, 2017** MW 9:30am - 10:45am *For MS in Information Systems students only.*	Seats (Total: 0) Location: TBA
0502	Sean Barnes **Meets August 28, 2017 - December 14, 2017** MW 11:00am - 12:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333

BUSI758F **Special Topics in Business; Experiential Learning Project**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758G **Special Topics in Business; Global Consulting Practicum**

Credits: 1-4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758Y **Special Topics in Business; DC I-Corps**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

DC01	Benjamin Solomon	Seats (Total: 22)
	Meets August 28, 2017 - December 14, 2017	
	Contact instructor or department for details.	

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI785 **Project Management in Dynamic Environments**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

BA01	Barnet Corwin **Meets October 23, 2017 - December 5, 2017** M 6:25pm - 10:00pm	Seats (Total: 45) BA 104

BUSI788B **Introduction to Global Business Experience; Doing Business in Brazil**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Paulo Prochno Su 12:00pm - 1:00pm	Seats (Total: 20) VMH 1303
GE01	Paulo Prochno Su 12:00pm - 1:00pm	Seats (Total: 0) VMH 1303

BUSI788C **Introduction to Global Business Experience; Doing Business in China**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Zhi-Long Chen Su 12:00pm - 1:00pm	Seats (Total: 11) VMH 1307

BUSI788E **Introduction to Global Business Experience; Doing Business in Europe**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Charles Olson Su 12:00pm - 1:00pm	Seats (Total: 20) VMH 1336
GE01	Charles Olson Su 12:00pm - 1:00pm	Seats (Total: 0) VMH 1336

BUSI788G **Introduction to Global Business Experience; Doing Business in India**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Progyan Basu	Seats (Total: 8)
	Su 12:00pm - 1:00pm	VMH 1314

BUSI788J **Introduction to Global Business Experience; Doing Business in South Africa**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Bennet Zelner	Seats (Total: 20)
	Su 12:00pm - 1:00pm	VMH 1330

BUSI788M **Introduction to Global Business Experience; Doing Business in the UAE**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Hassan Ibrahim	Seats (Total: 15)
	Su 12:00pm - 1:00pm	VMH 1333

BUSI788Y **Introduction to Global Business Experience; Doing Business in Japan and Singapore**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GB01	Cristian Dezso	Seats (Total: 19)
	Su 12:00pm - 1:00pm	VMH 1335

BUSI799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

For Smith School MS Students only.

Contact department for information to register for this course.

BUSM Full-Time MBA Program Fall 2017

BUSM600 **Leadership and Teamwork**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT600, BUSI662 or BUSM600.

Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.

0101	Neta Moye **Meets August 28, 2017 - December 5, 2017** Tu 8:00am - 9:50am	Seats (Total: 0) VMH 1511
0201	Neta Moye **Meets August 28, 2017 - December 14, 2017** Th 8:00am - 9:50am	Seats (Total: 0) VMH 1511

BUSM602 **Introduction to Financial Accounting**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI610 or BUSM602.

Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.

0101	Rebecca Hann **Meets August 28, 2017 - October 16, 2017** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1505

0201	Rebecca Hann	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 10:00am - 11:50am	VMH 1505

BUSM604 **Managerial Economics and Public Policy**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI681 or BUSM604.

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

0101	Cristian Dezso	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 2:00pm - 3:50pm	VMH 1505
0201	Cristian Dezso	Seats (Total: 0)
	Meets August 28, 2017 - October 16, 2017	
	MW 4:00pm - 5:50pm	VMH 1505

BUSM606 **Data, Models and Decisions**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630 or BUSM606.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0101	Shreevardhan Lele	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	Th 4:00pm - 5:50pm	VMH 1505

0201	Shreevardhan Lele	Seats (Total: 0)
	Meets August 28, 2017 - December 14, 2017	
	Th 2:00pm - 3:50pm	VMH 1505

BUSM610 **Financial Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI640 or BUSM610.

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

0101	Michael Faulkender	Seats (Total: 0)
	Meets August 28, 2017 - December 5, 2017	
	Tu 2:00pm - 3:50pm	VMH 1505
0201	Michael Faulkender	Seats (Total: 0)
	Meets August 28, 2017 - December 5, 2017	
	Tu 4:00pm - 5:50pm	VMH 1505

BUSM612 **Marketing Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI650 or BUSM612.

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

0101	David Godes	Seats (Total: 0)
	Meets October 23, 2017 - December 14, 2017	
	MW 4:00pm - 5:50pm	VMH 1505

0201	David Godes **Meets October 23, 2017 - December 14, 2017** MW 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505

BUSM614 **Strategic Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI690 or BUSM614.

Analyze and identify profit opportunities and threats in different industry and competitive environments; Analyze and identify a firm's valuable assets, resources and capabilities and how they might be protected, leveraged, and extended in the market; Learn how to organize your company to be the best prepared to adapt its strategy over time as the market environment changes; and how to use organic growth as well as mergers, acquisitions, joint ventures, alliances, and divestitures to ensure that the firm maintians the proper scale and scope to compete effectively over time.

0101	Paulo Prochno **Meets October 23, 2017 - December 14, 2017** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1505
0201	Paulo Prochno **Meets October 23, 2017 - December 14, 2017** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1505

BUSM626 **The Global Economic Environment**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI683 or BUSM626.

Relationship between national and international economic environments. Determinants of output, interest rates, prices and exchange rates. Analysis of effect of economic policies (fiscal, monetary, trade, tax) on the firm and the economy.

0101	Charles Olson **Meets August 22, 2017 - October 14, 2017** TuTh 2:00pm - 3:50pm	Seats (Total: 47) VMH 1511

0201	Charles Olson **Meets August 28, 2017 - October 14, 2017** TuTh 4:00pm - 5:50pm	Seats (Total: 49) VMH 1511

BUSM703 **Marketing Strategy**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK757 or BUSM703.

A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.

0101	Laurent Fabre **Meets October 23, 2017 - December 14, 2017** MW 4:00pm - 5:50pm	Seats (Total: 47) VMH 1528

BUSM708 **Independent Study in Business**

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

0101	Charles Olson **Meets August 28, 2017 - October 14, 2017** Contact instructor or department for details.	Seats (Total: 10)
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0401	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
1001	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BUSM710 **Advanced Marketing Analytics Models**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK706 or BUSM705.

Introduction to modeling tools used to support marketing analysis and decision making. Applications in strategic marketing, marketing segmentation, new product development, sales promotion analysis, pricing, design of marketing mix, sales force allocation, and direct marketing. Spreadsheet driven cases and illustrative readings.

0101	Jie Zhang **Meets August 28, 2017 - October 16, 2017** MW 2:00pm - 3:50pm	Seats (Total: 47) VMH 1511

BUSM711 **Pricing Strategies for Sustainable Competitive Advantage**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Pricing is one of the most important marketing decisions a firm faces. This course will help participants to develop pricing strategies using actual proven concepts, processes and techniques, to align pricing strategies with corporate goals and objectives, to determine the value customers assign to products and services using competitive pricing analysis, and to optimize pricing using customer segmenting strategies. The course will focus on both economic and behavioral aspects of pricing, and evaluation of innovative pricing practices such as price matching, customized pricing, bundle pricing and product line pricing, covering both B2B and B2C markets. Instruction will be through a mix of case studies, pricing simulation games, hands-on exercises and discussions. The course will provide participants with an in-depth understanding of state-of-the-art pricing strategies, practices and techniques for making profitable and sustainable pricing decisions.

0101	Pallassana Kannan	Seats (Total: 47)
	Meets August 28, 2017 - October 14, 2017	
	TuTh 8:00am - 9:50am	VMH 1505

BUSM714 **Integrated Marketing Communications**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM612. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK717 or BUSM707.

Marketing communications are a complex but critical component of marketing strategy. Topics include communication tools: advertising, sales promotions, corporation communications, one-on-one or direct marketing, public relations, internet communications, sponsorship/events marketing, and marketing communcation plans: defining objectives, implementing the plan, and measuring communications effectiveness. Achieving integration in the content, look, and feel of all marketing communications is stressed.

0101	Jeremy Brown	Seats (Total: 35)
	Meets October 23, 2017 - December 14, 2017	
	MW 2:00pm - 3:50pm	VMH 1518

BUSM736 **Corporate Risk Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN754 or BUSM736.

Surveys the theory and practice of financial risk identification, measurement, and mitigation at financial and non-financial firms. Topics will include hedging with options and futures, interest rate risk management, Value-at-Risk (VaR), Cashflow-at-Risk (CaR), Earnings-at-Risk (EaR), credit risk, equity risk, commodities risk, exchange rate risk, and lessons from risk management disasters.

0101	Clifford Rossi	Seats (Total: 35)
	Meets October 23, 2017 - December 14, 2017	
	MW 4:00pm - 5:50pm	VMH 1518

BUSM738A **Investment Fund Management; Mayer Fund**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with the opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

Contact department for information to register for this course.

BUSM738B **Investment Fund Management; New Market Growth**

(Perm req)

Credits: 2 Grading Method: Regular

Provides second-year Master in Business Administration students with the opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

Contact department for information to register for this course.

BUSM741 **Financial Restructuring**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN752 or BUSM741.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0101	Richmond Mathews	Seats (Total: 35)
	Meets August 28, 2017 - October 16, 2017	
	MW 2:00pm - 3:50pm	VMH 1518

BUSM750 **Project Management in Dynamic Environments**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI785 or BUSM750.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

0101	Barnet Corwin	Seats (Total: 47)
	Meets August 28, 2017 - October 14, 2017	
	TuTh 10:00am - 11:50am	VMH 1505

BUSM752 **Games of Strategy and Incentives**

Credits: 4 Grading Method: Regular

Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Or BUSM610; and BUSM604; and BUSM614. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.

Analysis of managerial decisions in strategic environments using tools from game theory; competition and cooperation in product markets; principal-agent model and the economics of incentives; analytical foundations of behavioral constructs such as reputation, commitment and credibility.

0101	Shreevardhan Lele	Seats (Total: 54)
	Meets August 28, 2017 - December 14, 2017	
	MW 10:00am - 11:50am	VMH 1511

BUSM754 **Competitive and Collaborative Negotiation**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO714 or BUSM754.

Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.

0101	Vijaya Venkataramani **Meets October 23, 2017 - December 14, 2017** TuTh 2:00pm - 3:50pm	Seats (Total: 42) VMH 1511
0201	Vijaya Venkataramani **Meets October 23, 2017 - December 14, 2017** TuTh 4:00pm - 5:50pm	Seats (Total: 42) VMH 1511

BUSM758A **Special Topics in Business; Angel Investing**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Elana Fine F 10:00am - 11:50am	Seats (Total: 18) VMH 2509

BUSM758G **Special Topics in Business; Global Trade Logistics**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Gary Cohen **Meets August 28, 2017 - October 14, 2017** TuTh 8:00am - 9:50am	Seats (Total: 36) VMH 1335

BUSM764 **Pricing and Revenue Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSM606; and BUSM624. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUDT775 or BUSM764.

Specialized course on pricing and revenue management (PRM) that provide students with tools and principles, drawn from several disciplines (Operations, Microeconomics, Decision Modeling, Statistics, Marketing, IS) to make effective pricing decisions. Topics covered include economics of pricing, strategy and tactics of PRM, pricing optimization, differentiated pricing, dynamic pricing, mark-down pricing, legal and ethical issues in models/methods used in making effective PRM decisions and managerial or organizational factors that hold the key to success in execution of PRM.

0101	Michael Ball	Seats (Total: 50)
	Meets October 23, 2017 - December 14, 2017	
	TuTh 10:00am - 11:50am	VMH 1335

BUSM775 **Global Strategy**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO754 or BUSM775.

Focuses on the "strategic" and "organizational" questions that a company must address as it globalizes its footprint. Among the questions that will be addressed are: What are the potential benefits, costs, and risks associated with going abroad? What differentiates a "global" from a "multidomestic" industry? What are the sources of competitive advantage in a global context?

0101	Paulo Prochno	Seats (Total: 47)
	Meets August 28, 2017 - October 16, 2017	
	MW 4:00pm - 5:50pm	VMH 1520

BUSM778B **Introduction to Global Business Experience; Doing Business in Brazil**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Paulo Prochno	Seats (Total: 10)
	Su 12:00pm - 1:00pm	VMH 1303

BUSM778C **Introduction to Global Business Experience; Doing Business in China**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Zhi-Long Chen	Seats (Total: 2)
	Su 12:00pm - 1:00pm	VMH 1307

BUSM778E **Introduction to Global Business Experience; Doing Business in Europe**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Charles Olson	Seats (Total: 10)
	Su 12:00pm - 1:00pm	VMH 1336

BUSM778G **Introduction to Global Business Experience; Doing Business in India**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Progyan Basu	Seats (Total: 7)
	Su 12:00pm - 1:00pm	VMH 1314

BUSM778J **Introduction to Global Business Experience; Doing Business in South Africa**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Bennet Zelner	Seats (Total: 8)
	Su 12:00pm - 1:00pm	VMH 1330

BUSM778M **Introduction to Global Business Experience; Doing Business in the UAE**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Hassan Ibrahim	Seats (Total: 6)
	Su 12:00pm - 1:00pm	VMH 1333

BUSM778Y **Introduction to Global Business Experience; Doing Business in Japan and Singapore**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

GL01	Cristian Dezso	Seats (Total: 5)
	Su 12:00pm - 1:00pm	VMH 1335

BUSM798J **Business Consulting; Business Systems Design for Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Joseph Bailey	Seats (Total: 18)
	Meets August 28, 2017 - December 14, 2017	
	Th 2:00pm - 3:50pm	VMH 2505
	Class time/details on ELMs	ONLINE

BUSM798Q **Business Consulting; Business Problem Solving Practicum**

(Perm req)

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Albert Krall, Nicole Coomber	Seats (Total: 30)
	Meets August 28, 2017 - December 14, 2017	
	MW 8:00am - 9:50am	VMH 1330

CBMG Cell Biology & Molecular Genetics Fall 2017

CBMG688A **Special Topics in Cell Biology and Molecular Genetics; Research Experiences**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Kevin McIver Tu 12:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 20) MCB 2119
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

CBMG688D **Special Topics in Cell Biology and Molecular Genetics; Genetics: Cell Biology I - Structure and Function**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Wenxia Song, Sougata Roy **Meets October 16, 2017 - December 11, 2017** TuTh 4:00pm - 6:00pm	Seats (Total: 30) MCB 1207

CBMG688J **Special Topics in Cell Biology and Molecular Genetics; Genetics: Immunology and Host Defense**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	David Mosser, Roy Mariuzza **Meets August 28, 2017 - October 16, 2017** MW 4:00pm - 6:00pm	Seats (Total: 20) MCB 2119

CBMG688K **Special Topics in Cell Biology and Molecular Genetics; Genetics: Molecular Virology**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Jeffrey DeStefano, Margaret Scull **Meets October 16, 2017 - December 11, 2017** MW 3:00pm - 5:00pm	Seats (Total: 20) BRB 1210

CBMG688M **Special Topics in Cell Biology and Molecular Genetics; Microbial Genetics**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Richard Stewart, Vincent Lee **Meets October 16, 2017 - December 11, 2017** MW 8:00am - 9:50am	Seats (Total: 15) HJP 2119

CBMG688N **Special Topics in Cell Biology and Molecular Genetics; Write Science using the Movies**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

Prerequisite: permission of department.

0101	Antony Jose **Meets August 28, 2017 - October 14, 2017** TuTh 4:00pm - 6:00pm	Seats (Total: 10) MCB 1123

CBMG688P **Special Topics in Cell Biology and Molecular Genetics; Programming for Biology**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Najib El-Sayed, Stephen Mount **Meets October 16, 2017 - December 11, 2017** MW 2:00pm - 3:50pm	Seats (Total: 12) MCB 2119

CBMG688Y **Special Topics in Cell Biology and Molecular Genetics; Bioinformatics and Genomics**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Najib El-Sayed, Michael Cummings **Meets August 28, 2017 - October 13, 2017** TuTh 9:00am - 10:50am	Seats (Total: 30) BSB 3118

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG699D **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Bioinformatics and Computation Biology**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Stephen Mount Contact instructor or department for details.	Seats (Total: 20)

CBMG699K **Special Problems in Cell Biology and Molecular Genetics; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Also offered as BIOL608K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

CBMG699T **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Genetics of Eukaryotic Model Systems**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	Contact instructor or department for details.	

CBMG699X **Special Problems in Cell Biology and Molecular Genetics; Host Pathogen Interactions**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	David Mosser	Seats (Total: 20)
	F 9:00am - 10:30am	MCB 2119

CBMG699Y **Special Problems in Cell Biology and Molecular Genetics; Plant Cell Biology Journal Club**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Zhongchi Liu	Seats (Total: 20)
	M 11:00am - 12:00pm	BRB 3101

CBMG699Z **Special Problems in Cell Biology and Molecular Genetics; Protein Translation**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Jonathan Dinman	Seats (Total: 20)
	F 9:30am - 10:30am	MCB 1121

CBMG799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Pre-candidacy Research.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Doctoral Dissertation Research.

Contact department for information to register for this course.

CCJS Criminology and Criminal Justice Fall 2017

CCJS100 **Introduction to Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0101	Justine Madoo	Seats (Total: 32)	
	MW 9:00am - 9:50am	SKN 0200	
	M 10:00am - 10:50am	KEY 0100	Discussion

0102	Justine Madoo MW 9:00am - 9:50am M 11:00am - 11:50am	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0103	Justine Madoo MW 9:00am - 9:50am M 12:00pm - 12:50pm	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0104	Justine Madoo MW 9:00am - 9:50am M 1:00pm - 1:50pm	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0105	Justine Madoo MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0106	Justine Madoo MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0107	Justine Madoo MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 32) SKN 0200 JMZ 0125	Discussion
0108	Justine Madoo MW 9:00am - 9:50am W 1:00pm - 1:50pm	Seats (Total: 32) SKN 0200 KEY 0100	Discussion
0201	Justine Madoo TuTh 3:00pm - 3:50pm Tu 9:30am - 10:20am	Seats (Total: 30) LEF 2205 LEF 1220	Discussion
0202	Justine Madoo TuTh 3:00pm - 3:50pm Tu 8:30am - 9:20am	Seats (Total: 30) LEF 2205 ASY 3219	Discussion
0203	Justine Madoo TuTh 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 30) LEF 2205 EDU 3233	Discussion

0204	Justine Madoo TuTh 3:00pm - 3:50pm W 10:00am - 10:50am	Seats (Total: 30) LEF 2205 JMZ 0208	Discussion
0205	Justine Madoo TuTh 3:00pm - 3:50pm W 11:00am - 11:50am	Seats (Total: 30) LEF 2205 KNI 1105	Discussion
0206	Justine Madoo TuTh 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 30) LEF 2205 BPS 1238	Discussion
0207	Justine Madoo TuTh 3:00pm - 3:50pm W 12:00pm - 12:50pm	Seats (Total: 30) LEF 2205 JMZ 0122	Discussion
0208	Justine Madoo TuTh 3:00pm - 3:50pm W 2:00pm - 2:50pm	Seats (Total: 30) LEF 2205 KNI 1103	Discussion
FC01	Emily Glazener MW 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 30) ASY 3219	

CCJS105 **Introduction to Criminology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0101	Katie Zafft MW 10:00am - 10:50am M 9:00am - 9:50am	Seats (Total: 35) SKN 0200 SQH 1107	Discussion
0102	Katie Zafft MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 35) SKN 0200 SYM 0215	Discussion

0103	Katie Zafft MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0104	Katie Zafft MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 35) SKN 0200 HBK 0105	Discussion
0105	Katie Zafft MW 10:00am - 10:50am W 9:00am - 9:50am	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0106	Katie Zafft MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0107	Katie Zafft MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0108	Katie Zafft MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 35) SKN 0200 LEF 1220	Discussion
0201	Katie Zafft TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0202	Katie Zafft TuTh 12:30pm - 1:20pm Tu 8:30am - 9:20am	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0203	Katie Zafft TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 35) SKN 0200 MTH 0304	Discussion
0204	Katie Zafft TuTh 12:30pm - 1:20pm Tu 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 MTH 0304	Discussion

0205	Katie Zafft TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0206	Katie Zafft TuTh 12:30pm - 1:20pm Th 8:30am - 9:20am	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0207	Katie Zafft TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 32) SKN 0200 HBK 1112	Discussion
0208	Katie Zafft TuTh 12:30pm - 1:20pm Th 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 PLS 1111	Discussion
FC02	Michelle Fabiani MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) LEF 1220	

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: CCJS100 or CCJS105. And 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140); or must have completed MATH220 with a minimum grade of C-. Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

0201	Miranda Galvin TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 35) SKN 0200 WDS 1114	Discussion

0202	Miranda Galvin TuTh 11:00am - 12:15pm Th 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 WDS 1114	Discussion
0203	Miranda Galvin TuTh 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 35) SKN 0200 CHM 0119	Discussion
0204	Miranda Galvin TuTh 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 35) SKN 0200 HBK 0105	Discussion
0205	Miranda Galvin TuTh 11:00am - 12:15pm Th 10:00am - 10:50am	Seats (Total: 30) SKN 0200 JMZ 2207	Discussion
0206	Miranda Galvin TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 KEY 0121	Discussion

CCJS225 **Responses to Violence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, SCIS

Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weakness of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

0101	Katie Zafft MWF 9:00am - 9:50am	Seats (Total: 50) KEY 0103	
0201	Katie Zafft MWF 11:00am - 11:50am	Seats (Total: 50) TYD 2109	
0301	Laura Dugan M 4:00pm - 6:30pm	Seats (Total: 50) TYD 1118	

CCJS230 **Criminal Law in Action**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Law as one of the methods of social control. Criminal law: its nature, sources and types; theories and historical developments. Behavioral and legal aspects of criminal acts. Classification and analysis of selected criminal offenses.

0101	Christine White MWF 10:00am - 10:50am	Seats (Total: 100) SQH 1120
0201	Russell Hamill W 4:00pm - 6:30pm	Seats (Total: 100) KEY 0106

CCJS234 **Law of Criminal Investigation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

General principles and theories of criminal procedure. Due process. Arrest, search and seizure. Recent developments. Study and evaluation of evidence and proof.

0101	David Salem Th 6:00pm - 8:30pm	Seats (Total: 100) TYD 0117

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Laure Brooks MWF 9:00am - 9:50am	Seats (Total: 60) LEF 2166
0201	Laure Brooks MWF 11:00am - 11:50am	Seats (Total: 60) LEF 2166
0301	Alan Lehman TuTh 12:30pm - 1:45pm	Seats (Total: 60) LEF 2166

0401	Alan Lehman TuTh 11:00am - 12:15pm	Seats (Total: 60) LEF 2166
SG91	Wendy Stickle W 9:30am - 12:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD2 1022

CCJS310 **Criminal Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in detection, investigation, and solution of crime. Students will be taught basic and advanced investigative techniques utilized by law enforcement agencies. Analysis of actual cases will be used to demonstrate practical uses of these techniques.

SG91	Shawn Eastman Th 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226
SG92	Charles Jordan MW 9:30am - 10:45am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3012

CCJS320 **Introduction to Criminalistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

This class is taught using a "blended learning" format divided equally with presentation of online recorded lectures, case studies, webcasts and readings; and practical examination of criminalistics procedures and evidence identification exercises in the CCJS Crime Laboratory. There are lab fees associated with this course.

BL01	Thomas Mauriello Class time/details on ELMs M 11:00am - 1:45pm	Seats (Total: 24) ONLINE MMH 2401	Lab
BL02	Thomas Mauriello Class time/details on ELMs M 2:30pm - 5:15pm	Seats (Total: 24) ONLINE MMH 2401	Lab
BL03	Thomas Mauriello Class time/details on ELMs M 6:00pm - 8:45pm	Seats (Total: 24) ONLINE MMH 2401	Lab

CCJS325 **Slavery in the Twenty First Century: Combating Human Trafficking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: CCJS325 or CCJS498R. Formerly: CCJS498R.

The trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

0101	Christine White W 2:00pm - 4:30pm	Seats (Total: 60) TYD 1101	
0201	Christine White M 2:00pm - 4:30pm	Seats (Total: 60) TYD 1101	
SG91	Louis Morlier M 2:45pm - 4:00pm Class time/details on ELMs *Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other student to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) BLD2 3062 ONLINE	

CCJS331 **Contemporary Legal Policy Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

In-depth examination of selected topics. Criminal responsibility. Socio-legal policy alternatives with regard to deviance. Law enforcement procedures for civil law and similar legal problems. Admissibility of evidence. Representation. Indigent's right to counsel.

SG91	Alan Drew W 9:30am - 12:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225

CCJS340 **Policing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Critical issues relating to policing. Topics include police discretion, role of police, use of force, misconduct, police research, administration, personnel, and etc.

0101	Laure Brooks MWF 10:00am - 10:50am	Seats (Total: 100) TYD 0117
0201	David Mitchell TuTh 2:00pm - 3:15pm	Seats (Total: 75) PLS 1130
SG91	Nicole Romeiser W 12:30pm - 3:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226

CCJS342 **Corrections**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.

Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.

0101	Kiminori Nakamura TuTh 3:30pm - 4:45pm	Seats (Total: 75) TYD 2106

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

0101	James Lynch TuTh 9:30am - 10:45am	Seats (Total: 75) LEF 2166
SG91	Alan Drew M 12:30pm - 3:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225

CCJS350 **Juvenile Delinquency**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105. Credit only granted for: CCJS 350 or CCJS 450.

Juvenile delinquency in relation to the general problem of crime; analysis of factors underlying juvenile delinquency; treatment and prevention; organization and social responsibility of law enforcement.

0101	Katie Zafft TuTh 9:30am - 10:45am	Seats (Total: 100) KEY 0102

CCJS358B **Special Topics in Study Abroad III; Criminology in Scandanavia**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS358E **Special Topics in Study Abroad III; Drugs and Drug Prevention in Central Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Prerequisites: CCJS 105 or CRIM 220; and CCJS 350 or CRIM 450; and permission of department. For majors only.

Contact department for information to register for this course.

CCJS360 **Victimology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105.

Overview of the history and theory of victimology. Analysis of victimization patterns with special emphasis on types of victims and crimes. The interaction between victims of crime and the criminal justice system with respect to the role of the victim and the services offered to the victim.

0101	Cortney Fisher TuTh 5:00pm - 6:15pm	Seats (Total: 100) JMZ 0220
SG91	Louis Morlier W 6:30pm - 9:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226

CCJS370 **Race, Crime and Criminal Justice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Prerequisite: CCJS100.

Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.

0101	Christine White MWF 12:00pm - 12:50pm	Seats (Total: 75) TWS 0310

CCJS386 **Experiential Learning**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS388H **Independent Reading Course in Criminology and Criminal Justice**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Designed for the needs of honor students in criminology and criminal justice.

0101	David Maimon	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	SQH 1101

CCJS398 **Law Enforcement Field Training**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Prerequisite: junior standing. For majors only.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Prerequisite: written consent of faculty under whose direction the study is to be performed, and at least twelve hours of CCJS credits.

Contact department for information to register for this course.

CCJS418A **Seminar in Criminology and Criminal Justice; Offender Re-Entry**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisite: CCJS100 and CCJS105.

0101	Justine Madoo	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	TYD 1118

CCJS418M **Seminar in Criminology and Criminal Justice; Cross National Comparisons of Crime and Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

SG91	Laszlo Korossy	Seats (Total: 40)
	M 3:30pm - 6:00pm	BLD3 2225
	Limit to CCJS students at Shady Grove.	

CCJS418P **Seminar in Criminology and Criminal Justice; Marijuana, Law and Society**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisite: CCJS100 and CCJS105.

0101	Alan Lehman	Seats (Total: 50)
	TuTh 3:30pm - 4:45pm	TYD 2109

CCJS418Q **Seminar in Criminology and Criminal Justice; Crime and Place**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

SG91	Nicole Romeiser	Seats (Total: 40)
	Th 12:30pm - 3:00pm	BLD3 3206
	Limit to CCJS students at Shady Grove.	

CCJS440 **Security Administration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS340. Credit only granted for: CCJS440 or CCJS498Z. Formerly: CCJS498Z.

Designed to introduce students to the complex issues of Security Administration and the critical terrorism issues facing the nation. Emphasis is placed on understanding the historical and contemporary issues effecting U.S. Counterterrorism Policy. It also explores the challenges facing today's security administrators including: ethics, classified information, intelligence, terrorist organizations and incidents, physical and personnel security, transportation and border security issues.

SG91	Louis Morlier W 5:00pm - 6:15pm Class time/details on ELMs *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226 ONLINE

CCJS450 **Advanced Juvenile Delinquency**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS350 or CCJS450.

Examination of juvenile delinquency in the United States. Nature and extent of juvenile delinquency, historical approaches, sociological and criminological theories and research, social contexts including the institutions of families, schools, and peers, and social responses. Prevention, punishment, and treatment programs, both within and outside of the juvenile justice and criminal justice systems.

0101	Justine Madoo TuTh 11:00am - 12:15pm	Seats (Total: 50) TYD 2106

CCJS451 **Crime and Delinquency Prevention**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300.

Methods and programs in prevention of crime and delinquency.

0101	Kiminori Nakamura TuTh 9:30am - 10:45am	Seats (Total: 50) TYD 1101
SG91	Thomas Alexander Tu 11:00am - 1:30pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2226

CCJS452 **Treatment of Criminals and Delinquents**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS 342 or CCJS 452.

Processes and methods used to modify criminal and delinquent behavior.

0101	Lauren Porter MW 2:00pm - 3:15pm	Seats (Total: 50) LEF 2166
0201	Sarah Tahamont TuTh 12:30pm - 1:45pm	Seats (Total: 50) TWS 0320

CCJS453 **White Collar and Organized Crime**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300; and (CCJS350 or CCJS105).

Definition, detection, prosecution, sentencing and impact of white collar and organized crime. Special consideration given to the role of federal law and enforcement practices.

0101	David Weber MW 2:00pm - 3:15pm	Seats (Total: 50) SQH 1120

CCJS454 **Contemporary Criminological Theory**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300 and CCJS105.

Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.

0101	Wade Jacobsen TuTh 11:00am - 12:15pm	Seats (Total: 50) SQH 1117

CCJS455 **Dynamics of Planned Change in Criminal Justice I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300. Restriction: Permission of BSOS-Criminology & Criminal Justice department.

An examination of conceptual and practical issues related to planned change in criminal justice. Emphasis on the development of innovative ideas using a research and development approach to change.

SG91	Wendy Stickle	Seats (Total: 6)
	Contact instructor or department for details.	

CCJS489H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular

Designed for students completing their honors thesis.

0101	David Maimon	Seats (Total: 20)
	W 4:00pm - 6:45pm	JMZ 0118

CCJS498B **Selected Topics in Criminology and Criminal Justice; Elder Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Heidi Bresee	Seats (Total: 40)
	Tu 12:30pm - 3:00pm	BLD3 3206
	Limit to CCJS students at Shady Grove.	

CCJS498I **Selected Topics in Criminology and Criminal Justice; Digital Forensics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	John Conroy	Seats (Total: 30)
	W 12:30pm - 3:00pm	BLD3 3203
	Limit to CCJS students at Shady Grove.	

CCJS498O **Selected Topics in Criminology and Criminal Justice; Crossover Youth: The instersection of the Child Welfare System and Criminal Justice System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	April Kaplan	Seats (Total: 40)
	Th 3:30pm - 6:00pm	BLD3 2225
	Limit to CCJS students at Shady Grove.	

CCJS498Z **Selected Topics in Criminology and Criminal Justice; A Matter of Life and Death: Criminal Sentencing Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	James Trusty	Seats (Total: 40)
	Tu 6:30pm - 9:00pm	BLD3 2226
	Limit to CCJS students at Shady Grove.	

CCJS600 **Criminal Justice**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral)) ; or permission of BSOS-Criminology & Criminal Justice department. Formerly: CJUS600.

Current concept of criminal justice in relationship to other concepts in the field. Historical perspective. Criminal justice and social control. Operational implications. Systemic aspects. Issues of evaluation.

0101	Brian Johnson	Seats (Total: 20)
	W 4:00pm - 6:45pm	LEF 1201

CCJS601 **Policing**

Credits: 3 Grading Method: Regular

An introduction to research, theory, and applications of the causes and consequences of police behavior. Community policing, problem-solving methods, police discretion, police misconduct, police crime prevention strategies, and restorative justice.

Contact department for information to register for this course.

CCJS604 **Policy Analysis Project**

(Perm req) Credits: 3 Grading Method: Regular

An application of statistical and conceptual tools to criminal justice data in the student's area of concentration, resulting in a paper reporting the conceptualization, analytic methods and results. The topic of the independent study will be chosen through individual consultation with the instructor.

Contact department for information to register for this course.

CCJS605 **Program Evaluation for Criminal Justice**

Credits: 3 Grading Method: Regular

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS611 **Statistical Tools for Criminal Justice**

Credits: 3 Grading Method: Regular

An introduction to essential statistical concepts for analyzing crime and evaluating criminal justice policies. Interpreting crime trends and correlations, risk and conditional probability analysis for repeat offenders and hot spots of crime, time series analysis, experimental statistics, effect sizes, statistical power and significance.

Contact department for information to register for this course.

CCJS620 **Fundamentals of Criminological Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: CCJS498D or CCJS620. Formerly: CCJS498D.

Designed to help criminology students understand and apply three important components of statistics: decriptive statistics (including probability theory), fundamentals of statistical inference, and regression analysis. Course assumes familiarity with basic descriptive statistics. The emphasis of the classes on descriptive statistics is the calculation and interpretation of summary statistical measures for describing raw data. Covers the basic rules of probability and different probabilistic processes that could describe criminal activity. The sessions on fundamentals of statistical inferences are designed to provide background for executing and interpreting hypothesis tests and confidence intervals. The latter portion of the course focuses on regession analysis. Uses the statistical software, Stata.

0101	Sarah Tahamont	Seats (Total: 35)
	Tu 4:00pm - 6:45pm	LEF 2165E

CCJS650 **Research Practicum**

Credits: 3 Grading Method: Regular

Provides the opportunity for students to develop and complete a research project, which will provide information on research proficiency for the determination of advancement to doctoral candidacy

0101	Denise Gottfredson M 4:00pm - 6:45pm	Seats (Total: 20) LEF 2220CC

CCJS654 **History of Criminological Thought**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CCJS454; or students who have taken courses with comparable content may contact the department. Formerly: CRIM654.

A study of the development of criminological thought from antiquity to the present.

0101	Wade Jacobsen Tu 4:00pm - 6:45pm	Seats (Total: 20) SQH 1123

CCJS663 **Issues in Corporate Crime**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: CCJS699S or CCJS663. Formerly: CCJS699S.

Overview of what is known about corporate crime and criminals (e.g.: similarities to and differences from other offenders and crime types; characteristics of offenders and victims; what counts as corporate crime ; introduction to theoretical frameworks.) Readings and class materials will coalesce around specific issues about which there is much debate but scant empirical research. Discussions will center around what is known, what is not, what needs to be done and how.

0101	Sally Simpson Th 4:00pm - 6:45pm	Seats (Total: 20) LEF 2165E

CCJS678F **Advanced Topics in Criminology and Criminal Justice; Criminal Law**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS678G **Advanced Topics in Criminology and Criminal Justice; Criminal Justice System in China**

Credits: 3 Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS699 **Special Criminological Problems**

Credits: 1-3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS699I **Special Criminological Problems; Communities and Crime**

Credits: 3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

0101	Lauren Porter	Seats (Total: 20)
	M 4:00pm - 6:45pm	LEF 2165E

CCJS710 **Advanced Statistics Methods - Limited Dependent Variables**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed an approved doctoral level statistics course. Formerly: CRIM710.

Application of advanced data analysis strategies to criminological and criminal justice problems, with specific focus on limited dependent variables.

0101	Laura Dugan	Seats (Total: 15)
	Th 4:00pm - 6:45pm	SQH 1101

CCJS720 **Criminal Justice System Planning: Policy Analysis for Crime Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.

System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.

0101	James Lynch W 4:00pm - 6:45pm	Seats (Total: 20) LEF 2165E
CH01	David Maimon **Meets October 2, 2017 - October 13, 2017** Contact instructor or department for details.	Seats (Total: 30)

CCJS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CCJS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Fall 2017

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

0101	Nam Sun Wang	Seats (Total: 95)	
	TuTh 12:30pm - 1:45pm	CHE 2108	
	M 11:00am - 11:50am	CHE 2108	Discussion

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

0101	Jeffery Klauda	Seats (Total: 95)	
	TuTh 2:00pm - 3:15pm	CHE 2110	
	W 11:00am - 11:50am	CHE 2108	Discussion

CHBE302 **Chemical and Biomolecular Engineering Thermodynamics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE301. Corequisite: CHBE250. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE302 or ENCH400. Formerly: ENCH400.

Contemporary trends in chemical engineering thermodynamics that bridge the gap between fundamentals and applications. Thermodynamic analysis of non-ideal and structured systems; such as complex fluids, strongly fluctuating and nanoscale systems, dissipative systems, biosystems, and systems under extreme conditions.

0101	Taylor Woehl	Seats (Total: 40)	
	MWF 4:00pm - 4:50pm	CHE 2110	
	F 11:00am - 11:50am	CHE 2108	Discussion

CHBE333 **Chemical Engineering Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Junior standing; and must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE333 or ENCH333. Formerly: ENCH333.

To develop oral communication skills through a series of class presentations of current chemical engineering topics.

0101	Deborah Goldberg W 12:00pm - 12:50pm	Seats (Total: 15) CHE 2116	
0102	Deborah Goldberg W 10:00am - 10:50am	Seats (Total: 15) CHE 2145	
0103	Deborah Goldberg W 11:00am - 11:50am	Seats (Total: 15) CHE 2113	

CHBE410 **Statistics and Design of Experiments**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE410 or ENCH476. Formerly: ENCH476.

An introduction to probability, statistics, and design of experiments for chemical engineers.

0101	Akua Asa-Awuku MWF 3:00pm - 3:50pm M 1:00pm - 1:50pm	Seats (Total: 100) CHE 2108 CHE 2108	 Discussion

CHBE422 **Chemical and Biomolecular Engineering Transport Phenomena I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE101, CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE422 or ENCH422. Formerly: ENCH422.

Principals of fluid dynamics as applied to model development and proces design. Mass, momentum and energy conservation. Statics and surface tension. Equation of Continuity and Navier-Stokes Equation with application to laminar flow. Dimensional analysis. Macroscopic balances, Bernoulli Equation and friction factors with application to turbulent flow.

0101	Panagiotis Dimitrakopoulos TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 50) BPS 1243 BPS 1243	 Discussion
0102	Deborah Goldberg TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 50) CHE 2108 JMP 3201	 Discussion

CHBE437 **Chemical and Biomolecular Engineering Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE437 or ENCH437. Formerly: ENCH437.

Application of chemical engineering process and unit operation principals in small-scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results inreport form.

0101	Audaldo Ponce, Chunsheng Wang M 1:00pm - 5:00pm M 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2136	 Lab Discussion
0201	Chunsheng Wang, Audaldo Ponce Tu 11:00am - 3:00pm Tu 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2113A	 Lab Discussion
0301	Audaldo Ponce, Chunsheng Wang Th 11:00am - 3:00pm Th 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2113A	 Lab Discussion
0401	Audaldo Ponce, Chunsheng Wang F 1:00pm - 5:00pm F 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2108	 Lab Discussion

CHBE440 **Chemical Kinetics and Reactor Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE301, MATH241, and MATH246. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE440 or ENCH440. Formerly: ENCH440.

Fundamentals of chemical reaction kinetics and their application to the design and operation of chemical reactors. Reaction rate theory, homogeneous reactions and catalysis electrochemical reactions. Catalytic reactor design.

0101	Srinivasa Raghavan	Seats (Total: 120)	
	MWF 2:00pm - 2:50pm	CHE 2110	
	W 1:00pm - 1:50pm	CHE 2110	Discussion

CHBE442 **Chemical and Biomolecular Systems Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424 and CHBE426. Credit only granted for: CHBE442 or ENCH442. Formerly: ENCH442.

Dynamic response applied to process systems. Goals and modes of control Laplace transformations, analysis and synthesis of simple control systems, closed loop response, dynamic testing.

0101	Kyu Yong Choi	Seats (Total: 110)	
	MW 12:00pm - 12:50pm	CHE 2110	
	F 12:00pm - 12:50pm	JMP 3201	
	W 4:00pm - 4:50pm	BPS 1250	Discussion

CHBE444 **Process Engineering Economics and Design I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE444 or ENCH444. Formerly: ENCH444.

Principles of chemical engineering economics and process design. Equipment sizing and costing. Economic evaluation of projects. Flowsheet synthesis. Introduction to flowsheet simulators and concepts of flowsheet optimization. Synthesis of Heat Exchanger Networks and Distillation Sequences.

0101	Ganesh Sriram	Seats (Total: 60)	
	TuTh 3:30pm - 4:45pm	CHE 2110	
	W 10:00am - 10:50am	CHE 2108	Discussion

0102	Ganesh Sriram	Seats (Total: 60)	
	TuTh 3:30pm - 4:45pm	CHE 2110	
	W 2:00pm - 2:50pm	CHE 2108	Discussion

CHBE468 **Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.

Contact department for information to register for this course.

CHBE468P **Research; Therapeutic Development and Delivery**

Credits: 3 Grading Method: Regular

Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.

0101	Steven Jay	Seats (Total: 10)	
	TuTh 12:30pm - 1:45pm	ESJ 1309	

CHBE486 **Heterogeneous Catalysis for Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE302, CHBE424, and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE486 or ENCH686.

Introduction to heterogeneous catalytic science and technology for energy conversion and hydocarbon processing. Preparation and mechanistic characterization of catalyst systems, kinetics of catalyzed reactions, adsorption and diffusion influences in heterogenious reactions. An overview of heterogeneous catalysis in various energy-related applications, including petroleum refining, chemicals from biomass, valorization of shale gas, and CO2 utilization will be introduced.

0101	Dongxia Liu	Seats (Total: 37)	
	MW 5:00pm - 6:15pm	CHE 2110	

CHBE492 **Multi-scale and Multiphase Flows**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE422; and minimum grade of C- in CHBE424. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Multiphase systems for the transport and processing of emulsions (immiscible liquids), slurries (solids in liquids) and gassed liquids exhibit a variety of phenomena that occur on different length and time scales. For instance, the pressure and/or power required to process an emulsion or solid suspension depend on flow behavior on the vessel scale while the size of emulsion drops and the solids distribution depend on phenomena that occur on the particle/drop scale. In this course we examine a variety of topics that can be brought to bear on the analysis of multi-scale and multiphase flows. Fundamentals will be supported by examples from the chemical, petrochemical, food, personal care pharmaceutical and biomedical process industries.

0101	Richard Calabrese	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CHE 2145

CHBE497 **Protein Engineering**

Credits: 3 Grading Method: Regular

Prerequisite: BIOE120, CHBE302, and CHBE440; and permission of instructor. Credit only granted for: CHBE497, BIOE489R, or ENCH 648P.

This course will cover the fundamentals of protein engineering and its applications in medicine, chemical processes, and energy. Topics will include the structure and function of biological molecules, rational design and directed evolution, construction of protein and peptide libraries, protein screening platforms, methods for characterizing structure and function of biological molecules. Scientific literature will be used to highlight key discoveries and current work in protein engineering.

0101	Amy Karlsson	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 1104

CHEM Chemistry Fall 2017

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to students admitted into the Science in the Evening Program, administer ed through the Office of Extended Studies. For complete information, visit:OES website , email:oes@umd.edu, or call 301-405-7762.*

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Students without the math pre-requisite will be administratively dropped.

1221	Lee Friedman MWF 10:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
1222	Lee Friedman MWF 10:00am - 10:50am Tu 9:30am - 10:20am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
1224	Lee Friedman MWF 10:00am - 10:50am Tu 11:00am - 11:50am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
1245	Lee Friedman MWF 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 45) CHM 1407 CHM 2201	Discussion
1246	Lee Friedman MWF 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 25) CHM 1407 CHM 2201	Discussion
1247	Lee Friedman MWF 10:00am - 10:50am Th 3:30pm - 4:20pm	Seats (Total: 45) CHM 1407 CHM 2201	Discussion
1325	John Ondov MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 43) HJP 0226 CHM 0115	Discussion
1327	John Ondov MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 23) HJP 0226 CHM 0115	Discussion
1328	John Ondov MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 43) HJP 0226 CHM 0115	Discussion

1345	John Ondov MWF 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 43) HJP 0226 CHM 0115	Discussion
1347	John Ondov MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 43) HJP 0226 CHM 0115	Discussion
1348	John Ondov MWF 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 43) HJP 0226 CHM 0115	Discussion
1425	Amanda Schech MWF 1:00pm - 1:50pm Tu 12:30pm - 1:20pm	Seats (Total: 34) HJP 0226 CHM 0122	Discussion
1426	Amanda Schech MWF 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 34) HJP 0226 CHM 0122	Discussion
1427	Amanda Schech MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 34) HJP 0226 CHM 0122	Discussion
1441	Amanda Schech MWF 1:00pm - 1:50pm Th 8:00am - 8:50am	Seats (Total: 34) HJP 0226 CHM 1109	Discussion
1443	Amanda Schech MWF 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 34) HJP 0226 CHM 1109	Discussion
1525	Garegin Papoian MWF 1:00pm - 1:50pm Tu 12:30pm - 1:20pm	Seats (Total: 45) CHM 1407 CHM 2201	Discussion
1527	Garegin Papoian MWF 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 45) CHM 1407 CHM 2201	Discussion

1528	Garegin Papoian MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 25) CHM 1407 CHM 2201	Discussion
1541	Garegin Papoian MWF 1:00pm - 1:50pm Th 8:00am - 8:50am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
1542	Garegin Papoian MWF 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
1543	Garegin Papoian MWF 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
FC01	Earle Stone TuTh 4:30pm - 5:45pm F 11:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 44) CHM 1402 CHM 2201	Discussion
FC02	Earle Stone TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 44) CHM 1402 CHM 2201	Discussion
FC03	Earle Stone TuTh 4:30pm - 5:45pm F 3:00pm - 3:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 44) CHM 1402 CHM 1224	Discussion
SEF1	William Hollinsed M 6:30pm - 9:30pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 28) PLS 1111 CHM 2201	Discussion

CHEM131S **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Students without the math pre-requisite will be administratively dropped. Restricted to College Park Scholars - Life Sciences.

1246	Lee Friedman MWF 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 20) CHM 1407 CHM 2201	 Discussion
1327	John Ondov MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 20) HJP 0226 CHM 0115	 Discussion
1442	Amanda Schech MWF 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 31) HJP 0226 CHM 1109	 Discussion
1528	Garegin Papoian MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 20) CHM 1407 CHM 2201	 Discussion

CHEM132 **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

1111	Christiana Addei-Maanu M 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	 Lab

1122	Christiana Addei-Maanu M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1316	Lab
1131	Christiana Addei-Maanu M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
1132	Christiana Addei-Maanu M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1316	Lab
1211	Christiana Addei-Maanu Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1312	Lab
1221	Christiana Addei-Maanu Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1312	Lab
1222	Christiana Addei-Maanu Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1316	Lab
1223	Christiana Addei-Maanu Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1324	Lab
1232	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1316	Lab
1311	Christiana Addei-Maanu W 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	Lab
1321	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1312	Lab
1331	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
1332	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1316	Lab
1333	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1324	Lab
1334	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1330	Lab

1411	Christiana Addei-Maanu Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 1312	Lab
1412	Christiana Addei-Maanu Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 1316	Lab
1413	Christiana Addei-Maanu Th 9:30am - 12:20pm	Seats (Total: 24) ESJ 1324	Lab
1422	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1316	Lab
1424	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1330	Lab
1432	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1316	Lab
1434	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1330	Lab
1511	Christiana Addei-Maanu F 9:00am - 11:50am	Seats (Total: 24) ESJ 1312	Lab
1531	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1312	Lab
1532	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1316	Lab
1533	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1324	Lab
FC11	Christiana Addei-Maanu F 9:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1316	Lab
FC12	Christiana Addei-Maanu F 9:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ESJ 1324	Lab

FC13	Christiana Addei-Maanu F 9:00am - 11:50am	Seats (Total: 24) ESJ 1330	Lab
	Restricted to students in Freshmen Connection.		
FC21	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1316	Lab
	Restricted to students in Freshmen Connection.		
FC22	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1324	Lab
	Restricted to students in Freshmen Connection.		
FC23	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1330	Lab
	Restricted to students in Freshmen Connection.		
SEF1	Christiana Addei-Maanu W 7:30pm - 10:30pm	Seats (Total: 24) ESJ 1330	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM132C **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Restricted to new freshmen and new transfer students in Biological Science, Chemistry or Biochemistry. Students must pay a $40.00 laboratory materials fee.

1121	Christiana Addei-Maanu M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1312	Lab
1123	Christiana Addei-Maanu M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1324	Lab

1133	Christiana Addei-Maanu M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1324	Lab
1213	Christiana Addei-Maanu Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1324	Lab
1231	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1312	Lab
1323	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1324	Lab
1421	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1312	Lab
1423	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1324	Lab
1433	Christiana Addei-Maanu Th 3:30pm - 6:20pm *Restricted to BioFire students.*	Seats (Total: 24) ESJ 1324	Lab
1521	Christiana Addei-Maanu F 12:00pm - 2:50pm *Restricted to BioFire students.*	Seats (Total: 24) ESJ 1312	Lab

CHEM132S **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee. Restricted to College Park Scholars - Life Sciences.

1212	Christiana Addei-Maanu Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1316	Lab

1233	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1324	Lab
1322	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1316	Lab
1431	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) ESJ 1312	Lab

CHEM134 **Chemical Principles for Engineering**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131; or minimum grade of C- in CHEM146. Credit only granted for: CHEM 134 or CHEM 135.

Basic chemistry for engineering students. Introduction to organic structures and polymers, gas laws, liquids, solids, phase changes, chemical kinetics and electrochemistry.

0101	Earle Stone Th 8:00am - 8:50am	Seats (Total: 160) ESJ 2208	

CHEM135 **General Chemistry for Engineers**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

3125	Alice Mignerey TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
3126	Alice Mignerey TuTh 11:00am - 12:15pm M 1:00pm - 1:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
3127	Alice Mignerey TuTh 11:00am - 12:15pm M 2:00pm - 2:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion

3145	Alice Mignerey TuTh 11:00am - 12:15pm W 12:00pm - 12:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
3147	Alice Mignerey TuTh 11:00am - 12:15pm W 1:00pm - 1:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
3148	Alice Mignerey TuTh 11:00am - 12:15pm W 2:00pm - 2:50pm	Seats (Total: 40) CHM 1407 CHM 0115	Discussion
3225	John Ondov MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3226	John Ondov MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3227	John Ondov MWF 2:00pm - 2:50pm Tu 3:30pm - 4:20pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3245	John Ondov MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3247	John Ondov MWF 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3248	John Ondov MWF 2:00pm - 2:50pm Th 3:30pm - 4:20pm	Seats (Total: 40) BRB 1101 CHM 0128	Discussion
3325	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion

3326	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion
3327	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion
3345	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion
3347	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion
3348	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 3:30pm - 4:20pm	Seats (Total: 40) BRB 1101 CHM 1109	Discussion
FC01	Bonnie Dixon TuTh 4:30pm - 5:45pm F 11:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
FC02	Bonnie Dixon TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CHM 0115	Discussion
FC03	Bonnie Dixon TuTh 4:30pm - 5:45pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CHM 0115	Discussion

CHEM136 **General Chemistry Laboratory for Engineers**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CHEM135. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

A laboratory course for engineering majors intending to take CHEM231 and CHEM232.

There is a $40.00 lab fee for this course.

1125	Natalia White M 12:00pm - 2:50pm	Seats (Total: 24) ESJ 1330	Lab
1135	Natalia White M 3:00pm - 5:50pm	Seats (Total: 24) ESJ 1330	Lab
1215	Natalia White Tu 9:30am - 12:20pm	Seats (Total: 24) ESJ 1330	Lab
1225	Natalia White Tu 12:30pm - 3:20pm	Seats (Total: 24) ESJ 1330	Lab

CHEM146 **Principles of General Chemistry**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH140 or higher. Corequisite: CHEM177. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM143, or CHEM146. Formerly: CHEM143.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM146 is the first course in a four-semester sequence for Chemistry and Biochemistry majors.

0032	Efrain Rodriguez MWF 9:00am - 9:50am Tu 9:30am - 10:20am	Seats (Total: 26) CHM 0115 CHM 1228	Discussion
0033	Efrain Rodriguez MWF 9:00am - 9:50am Th 9:30am - 10:20am	Seats (Total: 26) CHM 0115 CHM 1228	Discussion

CHEM177 **Introduction to Laboratory Practices and Research in the Chemical Sciences**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: CHEM146, CHEM131, or CHEM135. Restriction: Must be in a major within CMNS-Chemistry & Biochemistry department; or permission of CMNS-Chemistry & Biochemistry department. Credit only granted for: CHEM132, CHEM136, CHEM147, or CHEM177.

First semester laboratory course required for CHEM and BCHM majors. Introduction to laboratory techniques, including safety practices, scientific ethics, and presentation of current research topics.

Students must pay a $40.00 laboratory materials fee.

1131	Elizabeth Griffith W 2:00pm - 2:50pm M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab
1231	Elizabeth Griffith W 2:00pm - 2:50pm Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab
1331	Elizabeth Griffith W 2:00pm - 2:50pm W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab
1431	Elizabeth Griffith W 2:00pm - 2:50pm Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab
1521	Elizabeth Griffith W 2:00pm - 2:50pm F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1402 ESJ 0312	 Lab

CHEM231 **Organic Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

5125	Lenea Stocker MWF 9:00am - 9:50am Tu 12:30pm - 1:20pm	Seats (Total: 48) CHM 1407 BPS 0283	 Discussion

5127	Lenea Stocker MWF 9:00am - 9:50am Tu 2:00pm - 2:50pm	Seats (Total: 48) CHM 1407 BPS 0283	Discussion
5128	Lenea Stocker MWF 9:00am - 9:50am Tu 3:30pm - 4:20pm	Seats (Total: 48) CHM 1407 BPS 0283	Discussion
5145	Lenea Stocker MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 48) CHM 1407 BPS 0283	Discussion
5147	Lenea Stocker MWF 9:00am - 9:50am Th 2:00pm - 2:50pm	Seats (Total: 48) CHM 1407 BPS 0283	Discussion
5148	Lenea Stocker MWF 9:00am - 9:50am Th 3:30pm - 4:20pm	Seats (Total: 48) CHM 1407 BPS 0283	Discussion
5215	Lenea Stocker MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion
5216	Lenea Stocker MWF 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion
5217	Lenea Stocker MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion
5235	Lenea Stocker MWF 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion
5236	Lenea Stocker MWF 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion

5237	Lenea Stocker MWF 12:00pm - 12:50pm Th 3:30pm - 4:20pm	Seats (Total: 45) CHM 1407 CHM 1228	Discussion
5315	Monique Koppel TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
5316	Monique Koppel TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
5317	Monique Koppel TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
5335	Monique Koppel TuTh 2:00pm - 3:15pm W 12:00pm - 12:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
5336	Monique Koppel TuTh 2:00pm - 3:15pm W 1:00pm - 1:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
5337	Monique Koppel TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 50) CHM 1407 CHM 2201	Discussion
SEF1	Monique Koppel M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 36) CHM 1402 CHM 1224	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM232 **Organic Chemistry Laboratory I**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Laboratory sessions will begin after the first lecture of CHEM 231. Students must pay a $40.00 laboratory materials fee.

5121	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5122	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5123	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
5124	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1360	Lab
5131	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5132	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab
5133	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5134	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1360	Lab
5141	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5142	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1346	Lab
5143	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5144	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab

5221	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5222	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5223	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5224	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab
5231	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5232	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5233	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5234	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab
5241	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1342	Lab
5242	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1346	Lab
5243	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1356	Lab
5244	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1360	Lab
5321	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5322	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab

5323	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
5324	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1360	Lab
5331	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5332	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab
5333	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5334	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1360	Lab
5341	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5343	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5344	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab
5421	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5422	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5423	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5424	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab
5431	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab

5432	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5433	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5434	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab
SEF1	Monique Koppel W 7:30pm - 10:30pm	Seats (Total: 18) CHM 1346	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM241 **Organic Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

6115	Philip DeShong TuTh 8:00am - 9:15am M 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
6116	Philip DeShong TuTh 8:00am - 9:15am M 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
6117	Philip DeShong TuTh 8:00am - 9:15am M 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
6135	Philip DeShong TuTh 8:00am - 9:15am W 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion

6136	Philip DeShong TuTh 8:00am - 9:15am W 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
6137	Philip DeShong TuTh 8:00am - 9:15am W 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
6212	Michael Montague-Smith TuTh 9:30am - 10:45am M 9:00am - 9:50am	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6213	Michael Montague-Smith TuTh 9:30am - 10:45am M 10:00am - 10:50am	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6214	Michael Montague-Smith TuTh 9:30am - 10:45am M 11:00am - 11:50am	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6235	Michael Montague-Smith TuTh 9:30am - 10:45am W 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6236	Michael Montague-Smith TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6237	Michael Montague-Smith TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6415	Bonnie Dixon TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6416	Bonnie Dixon TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion

6417	Bonnie Dixon TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 1109	 Discussion
6435	Bonnie Dixon TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 0128	 Discussion
6436	Bonnie Dixon TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 0128	 Discussion
6437	Bonnie Dixon TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 0128	 Discussion
SEF1	Howard Fribush M 6:30pm - 9:30pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) PLS 1140 CHM 0127	 Discussion

CHEM242 **Organic Chemistry Laboratory II**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 laboratory materials fee.

6121	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1302	 Lab
6122	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	 Lab
6123	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	 Lab

6131	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6132	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1308	Lab
6141	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1302	Lab
6142	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1308	Lab
6144	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
6221	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6222	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6224	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
6231	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6232	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6234	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
6241	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1302	Lab
6243	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1326	Lab
6321	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1302	Lab

6322	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6323	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
6324	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1330	Lab
6331	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6332	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 14) CHM 1308	Lab
6333	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1326	Lab
6334	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1330	Lab
6344	Lee Friedman W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
6421	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6422	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6423	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1326	Lab
6431	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6432	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6433	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1326	Lab

6434	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	 Lab
SEF1	Lee Friedman W 7:30pm - 10:30pm	Seats (Total: 18) CHM 1308	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM247 **Principles of Organic Chemistry II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM237; or permission of CMNS-Chemistry & Biochemistry department. Restriction: Must be in one of the following programs (Chemistry; Biochemistry) ; or must be an honors student. Credit only granted for: CHEM243 or CHEM247.

A continuation of CHEM237 with emphasis on molecular structure, substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

Students must pay a $40.00 laboratory materials fee.

6113	Myles Poulin MWF 10:00am - 10:50am M 3:00pm - 5:50pm Tu 12:30pm - 1:20pm	Seats (Total: 18) CHM 1402 CHM 1326 CHM 0124	 Lab Discussion
6224	Myles Poulin MWF 10:00am - 10:50am Tu 3:30pm - 6:20pm Tu 2:00pm - 2:50pm	Seats (Total: 18) CHM 1402 CHM 1326 CHM 0124	 Lab Discussion
6323	Myles Poulin MWF 10:00am - 10:50am Tu 12:30pm - 3:20pm Tu 3:30pm - 4:20pm	Seats (Total: 18) CHM 1402 CHM 1326 CHM 0124	 Lab Discussion

CHEM271 **General Chemistry and Energetics**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics thermodynamics and electrochemistry in the context of current chemistry research.

2222	Bryan Eichhorn, Michael Zachariah MW 11:00am - 11:50am Tu 8:00am - 8:50am	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2225	Michael Zachariah, Bryan Eichhorn MW 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2227	Michael Zachariah, Bryan Eichhorn MW 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2242	Michael Zachariah, Bryan Eichhorn MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 28) CHM 1407 CHM 0122	 Discussion
2245	Bryan Eichhorn, Michael Zachariah MW 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 28) CHM 1407 CHM 0122	 Discussion
2247	Bryan Eichhorn, Michael Zachariah MW 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 28) CHM 1407 CHM 0122	 Discussion
2326	Bryan Eichhorn, Michael Zachariah MW 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2327	Bryan Eichhorn, Michael Zachariah MW 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2328	Michael Zachariah, Bryan Eichhorn MW 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion

2341	Bryan Eichhorn, Michael Zachariah MW 3:00pm - 3:50pm Th 8:00am - 8:50am	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2342	Michael Zachariah, Bryan Eichhorn MW 3:00pm - 3:50pm Th 9:30am - 10:20am	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
2344	Michael Zachariah, Bryan Eichhorn MW 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 28) CHM 1407 CHM 0127	 Discussion
SEF1	Daniel Gowetski M 6:00pm - 7:50pm W 6:30pm - 7:20pm	Seats (Total: 20) CHM 1228 CHM 1228	 Discussion
	Restricted to students in the SIE Program. Click here for more information.		

CHEM272 **General Bioanalytical Chemistry Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

8122	Amanda Schech F 11:00am - 11:50am M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
8132	Amanda Schech F 11:00am - 11:50am M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
8211	Amanda Schech F 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	 Lab

8222	Amanda Schech F 11:00am - 11:50am Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
8231	Amanda Schech F 11:00am - 11:50am Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8321	Amanda Schech F 11:00am - 11:50am W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8331	Amanda Schech F 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8431	Amanda Schech F 11:00am - 11:50am Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
8532	Amanda Schech F 11:00am - 11:50am F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab
9121	Amanda Schech F 3:00pm - 3:50pm M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9131	Amanda Schech F 3:00pm - 3:50pm M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9221	Amanda Schech F 3:00pm - 3:50pm Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2312	Lab
9232	Amanda Schech F 3:00pm - 3:50pm Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	Lab

9322	Amanda Schech F 3:00pm - 3:50pm W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
9332	Amanda Schech F 3:00pm - 3:50pm W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
9422	Amanda Schech F 3:00pm - 3:50pm Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
9432	Amanda Schech F 3:00pm - 3:50pm Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
9521	Amanda Schech F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2312	 Lab
9522	Amanda Schech F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 ESJ 2316	 Lab
SEF1	Amanda Schech M 8:00pm - 8:50pm W 7:30pm - 10:30pm	Seats (Total: 24) CHM 1228 ESJ 2312	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM277 **Fundamentals of Analytical and Bioanalytical Chemistry Laboratory**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM276. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM153, CHEM227, CHEM272 or CHEM277.

Quantitative analysis, inorganic analytical chemistry, and an introduction to bio-analytical instrumentation and techniques.

Students must pay a $40.00 lab materials fee.

8111	John Fourkas F 11:00am - 11:50am MW 12:00pm - 2:50pm	Seats (Total: 18) CHM 1224 ESJ 0312	 Lab
8211	John Fourkas F 11:00am - 11:50am TuTh 12:30pm - 3:20pm	Seats (Total: 18) CHM 1224 ESJ 0312	 Lab

CHEM389A **Pedagogy and Instruction in Chemistry; Instruction in Chemistry**

(Perm req)

Credits: 1 Grading Method: Regular

Methodologies, theory and educational tools applicable to the field of undergraduate chemistry education. Examples covered will use content from introductory general and organic chemistry courses.

0101	Lee Friedman Contact instructor or department for details.	Seats (Total: 25)

CHEM398 **Special Projects**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Honors projects for undergraduate students.

Limited to chemistry honors students. Consult with Dr. Montague-Smith.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research; Chemistry Instruction**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

0101	Michael Montague-Smith Contact instructor or department for details.	Seats (Total: 8)
0102	Lee Friedman Contact instructor or department for details.	Seats (Total: 30)

CHEM403 **Radiochemistry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one year of college chemistry and one year of college physics.

Radioactive decay; introduction to properties of atomic nuclei; nuclear processes in cosmology; chemical, biomedical and environmental applications of radioactivity; nuclear processes as chemical tools; interaction of radiation with matter.

0101	William Walters MWF 12:00pm - 12:50pm	Seats (Total: 45) CHM 1224

CHEM425 **Instrumental Methods of Analysis**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM272 and CHEM271; or (CHEM276 and CHEM277).

Modern instrumentation in analytical chemistry. Electronics, spectroscopy, chromatography and electrochemistry.

Students must pay a $40.00 laboratory materials fee.

0101	Natalia White MW 10:00am - 10:50am MW 12:00pm - 2:50pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0102	Natalia White MW 10:00am - 10:50am TuTh 12:30pm - 3:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0104	Natalia White MW 10:00am - 10:50am TuTh 9:30am - 12:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0105	Natalia White MW 10:00am - 10:50am MW 6:00pm - 8:50pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0109	Natalia White MW 10:00am - 10:50am TuTh 6:30pm - 9:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab

CHEM441 **Advanced Organic Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481; and 1 course with a minimum grade of C- from (CHEM241, CHEM247). Also offered as: CHEM641.

An advanced study of the compounds of carbon, with special emphasis on molecular orbital theory and organic reaction mechanisms.

0101	Osvaldo Gutierrez MW 4:00pm - 5:15pm	Seats (Total: 34) CHM 1228	

CHEM460 **Structure Determination Using Spectroscopic Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed CHEM243; or CHEM247; or (CHEM241 and CHEM242). Formerly: CHEM660.

The use of infrared, ultraviolet-visible, proton and carbon-13 nuclear magnetic resonance and mass spectroscopy for structure determination in organic chemistry.

0101	Lyle Isaacs	Seats (Total: 40)
	MWF 10:00am - 10:50am	CHM 1224

CHEM481 **Physical Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. And minimum grade of C- in MATH141. And minimum grade of C- in PHYS260 and PHYS261; or minimum grade of C- in PHYS141.

Thermodynamics and kinetics of chemical and molecular systems. Topics may include internal energy, heat, work, enthalpy, entropy, free energy, and spontaneity as well as reaction order, differential rate laws, integrated rate laws, and rate laws for multi-step processes.

0101	Millard Alexander	Seats (Total: 116)
	MWF 9:00am - 9:50am	CHM 1402

CHEM482 **Physical Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM481.

Quantum mechanical nature of atoms and molecules. Topics may include model systems for electronic, vibrational, rotational and translational energies as well as connections to molecular spectroscopy and thermal distributions.

0101	YuHuang Wang	Seats (Total: 42)
	MWF 9:00am - 9:50am	CHM 0119

CHEM483 **Physical Chemistry Laboratory I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481.

An introduction to the principles and application of quantitative techniques in physical chemical measurements. Experiments will be coordinated with topics in CHEM481.

Students must pay a $40.00 lab materials fee.

0114	Earle Stone Th 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab
0124	Earle Stone Th 11:00am - 11:50am Tu 2:00pm - 4:50pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab
0144	Earle Stone Th 11:00am - 11:50am W 2:00pm - 4:50pm	Seats (Total: 18) PLS 1130 CHM 3225	 Lab

CHEM484 **Physical Chemistry Laboratory II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM481 and CHEM483; and must have completed or be concurrently enrolled in CHEM482.

A continuation of CHEM 483. Advanced quantitative techniques necessary in physical chemical measurements. Experiments will be coordinated with topics in CHEM 482.

Students must pay a $40.00 laboratory materials fee.

0124	Earle Stone Th 3:30pm - 4:20pm W 10:00am - 12:50pm	Seats (Total: 12) CHM 1224 CHM 3221	 Lab
0134	Earle Stone Th 3:30pm - 4:20pm W 3:00pm - 5:50pm	Seats (Total: 12) CHM 1224 CHM 3221	 Lab

CHEM601 **Structure and Bonding of Molecules and Materials**

Credits: 3 Grading Method: Regular, Audit

Development of the tools necessary to use the knowledge of structure an bonding of molecules and solids in the practice of synthetic inorganic and materials chemistry. Several bonding models are covered, from the simple valence bond and ligand field models to a quantitative group theoretical treatment of molecular orbital theory and band structure descriptions of solids. Concepts of electron counting and oxidation state and ligand characteristics are revisited in terms of the more sophisticated bonding models. Finally, these models are used to analyze the reactivity, magnetic and spectroscopic properties of inorganic coordination compounds. Prior advanced inorganic and/or advanced quantum chemistry courses are not prerequisites.

0101	Lawrence Sita	Seats (Total: 21)
	MWF 9:00am - 9:50am	CHM 1224

CHEM608K **Selected Topics in Inorganic Chemistry; Chemistry Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Topics of special interest and current importance.

Also offered as BIOL608K, CBMG699K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

CHEM611 **Professional Skills for New Graduate Students**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Chemistry (Master's); Biochemistry (Master's); Biochemistry (Doctoral); Chemistry (Doctoral)) ; and must be a new graduate student.

Covers a wide range of topics in professional development for new graduate students.

0101	Amy Mullin	Seats (Total: 35)
	F 2:00pm - 3:15pm	CHM 1228

CHEM624 **Electrical Methods of Quantitative Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The use of conductivity, potentiometry, polarography, voltammetry, amperometry, coulometry, and chronopotentiometry in quantitative analysis.

0101	SANGBOK LEE	Seats (Total: 30)
	TuTh 8:00am - 9:15am	CHM 1224

CHEM625 **Separation Methods in Quantitative Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The theory and application for quantitative analysis of various forms of chromatography, ion exchange, solvent extraction, distillation, and mass spectroscopy.

0101	Cheng Lee	Seats (Total: 15)
	TuTh 4:30pm - 5:45pm	CHM 1228

CHEM640 **Problems in Organic Reaction Mechanisms**

Credits: 1 Grading Method: Regular, Audit

A tutorial type course dealing with the basic description of the fundamentals of writing organic reaction mechanisms.

0101	Daniel Falvey	Seats (Total: 20)
	F 12:00pm - 12:50pm	CHM 1228

CHEM641 **Organic Reaction Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Also offered as: CHEM441.

0101	Osvaldo Gutierrez	Seats (Total: 34)
	MW 4:00pm - 5:15pm	CHM 1228

CHEM684 **Chemical Thermodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

0101	John Weeks	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	CHM 1228

CHEM689B **Special Topics in Physical Chemistry**

Credits: 3 Grading Method: Regular, Audit

0101	Zhihong Nie	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CHM 1224

CHEM690 **Quantum Chemistry I**

Credits: 3 Grading Method: Regular, Audit

0101	Amy Mullin	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CHM 1224

CHEM699 **Special Problems in Chemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment.

Open only to non-thesis Master's degree candidates.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHEM889A **Seminar**

Credits: 1 Grading Method: Regular, Audit

0101	Alice Mignerey	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 0112

CHEM889C **Seminar**

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Th 11:00am - 11:50am	Seats (Total: 30) CHM 0112

CHEM889D **Seminar; Organic**

Credits: 1 Grading Method: Regular, Audit

0101	Philip DeShong Th 11:00am - 11:50am	Seats (Total: 20) CHM 0112

CHEM889E **Seminar; Physical Chemistry**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898F and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	John Weeks W 11:00am - 11:50am	Seats (Total: 15) CHM 0112

CHEM889F **Seminar; Chemical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898E and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	John Weeks W 11:00am - 11:50am	Seats (Total: 15) CHM 0112

CHEM889M **Seminar; Materials Chemistry**

Credits: 1 Grading Method: Regular, Audit

Contact department for information to register for this course.

CHEM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHEM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CHIN Chinese Fall 2017

CHIN101 **Intensive Elementary Chinese I**

(Perm req)

Credits: 6 Grading Method: Regular

Prerequisite: Must have attained appropriate Foreign Language Placement Test (FLPT) score.

Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.

0101	Jungjung Lee-Heitz, Mei Kong MWF 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 0122 JMZ 0122
0201	Mei Kong, Jungjung Lee-Heitz MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 0122 JMZ 0122
0301	Jungjung Lee-Heitz, Mei Kong MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 0122 JMZ 0122

CHIN105 **Elementary Chinese - Accelerated Track**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed CHIN103, CHIN102, or CHIN101.

Accelerated instruction in Mandarin Chinese at the elementary level for students with prior Chinese language background, either through home use or formal instruction.

0101	Yuli Wang MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 2123

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

0101	Guiling Hu MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 3118
0201	Guiling Hu MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 2120

CHIN202 **Intermediate Written Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

0101	Lili Zhang TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 3118
0201	Jungjung Lee-Heitz TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 3122

CHIN203 **Intermediate Spoken Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269D **Special Topics in Study Abroad II; Chinese Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Credits: 1-2 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269K **Special Topics in Study Abroad II; Intermediate Chinese II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269V **Special Topics in Study Abroad II; Chinese Calligraphy**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

0101	Yuli Wang MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 1123
0201	Yuli Wang MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 2125

CHIN305 **Life in China through TV Plays I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN203 and CHIN204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Using authentic Chinese language material in short TV plays to learn about society and life in China.

0101	Yuli Wang MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 1226

CHIN313 **Chinese Poetry and Prose in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Writing of the major poets, essayists, and historians from the 10th century B.C. to the 12th century A.D. No knowledge of Chinese is required.

Contact department for information to register for this course.

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369D **Special Topics in Study Abroad III; Advanced Chinese III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

CHIN401 **Readings in Modern Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN302; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in history, politics, economics, sociology, and literature. Emphasis on wide-ranging, rapid reading, reinforced by conversations and compositions.

0101	Guiling Hu	Seats (Total: 17)
	MWF 10:00am - 10:50am	JMZ 2117

CHIN411 **Business Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHIN402; or permission of ARHU-School of Languages, Literatures, and Cultures department. And must have taken a placement interview offered by the department for Non-majors.

Conversation, reading, and writing applicable to Chinese business transactions, social meetings, and meetings with government organizations, plus background material in English on professional business practices and social customs associated with business.

0101	Mei Kong	Seats (Total: 15)
	MWF 3:00pm - 3:50pm	JMZ 1226

CHIN441 **Traditional Chinese Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Major works of fiction from the 4th century tales of the marvelous through the 19th century Qing novel. Readings are in classical Chinese and English. Designed for students with advanced language skills. Taught in English.

0101	Andrew Schonebaum	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 2123

CHIN499 **Directed Study in Chinese**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHPH Chemical Physics Fall 2017

CHPH618 **Special Projects in Chemical Physics**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Independent reading and study covering chemical physics subject areas not available in other courses.

Contact department for information to register for this course.

CHPH709A **Seminar in Chemical Physics; Physical Chemistry**

Credits: 1

Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as CHEM898E and CHEM898F. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	John Weeks	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 0112

CHPH709B **Seminar in Chemical Physics; Statistical Physics**

Credits: 1

Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as PHYS709.

0101	John Weeks	Seats (Total: 30)
	Tu 1:15pm - 2:30pm	IPT 1116

CHPH709L **Seminar in Chemical Physics; Biophysics**

Credits: 1

Grading Method: Regular, Audit

Current research and developments in chemical physics.

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	CHM 0112

CHPH718I **Special Topics in Chemical Physics; Chemical Physics Rotation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

A discussion of current research problems in chemical physics.

For Chemical Physics Students only.

0201	Garegin Papoian	Seats (Total: 5)
	Contact instructor or department for details.	

CHPH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CLAS Classics Fall 2017

CLAS169M **Special Topics in Study Abroad I; Myths and Legends**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS170 **Greek and Roman Mythology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 24) MMH 1400 ARC 1103	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 24) MMH 1400 PLS 1111	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 24) MMH 1400 PLS 1117	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 24) MMH 1400 JMP 1109	Discussion
0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 24) MMH 1400 MTH 0305	Discussion
0106	Lillian Doherty MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 24) MMH 1400 ARC 1103	Discussion
0107	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 24) MMH 1400 MTH 0405	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 HBK 1108	Discussion
0202	Lillian Doherty MW 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 26) MMH 1400 ASY 3215	Discussion

0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 MTH 0303	Discussion
0205	Lillian Doherty MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 MTH 0401	Discussion
FC01	Rachel Mullervy TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112	
FC02	Rachel Mullervy TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) HBK 1112	
FC03	Madeleine Goh MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) TLF 1101	
FC04	Ryan Moore TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) KEY 0116	
FCH1	William Proffitt W 6:00pm - 7:15pm Contact instructor or department for details. *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3217	

CLAS275 **Why do we laugh?**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, SCIS

An introduction to the breadth and complexity of humor's role in society. Students will familiarize themselves with the explanations that various disciplines have offered about what makes us laugh, and analyze the major impact humor has in our understanding of who we are and how we see our world.

0101	Francisco Barrenechea TuTh 11:00am - 12:15pm	Seats (Total: 30) JMZ 1122

CLAS305 **Archaeological Methods and Practice**

Credits: 3 | Grading Method: Regular | General Education: DSHS

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, ARTH305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	George Hambrecht TuTh 2:00pm - 3:15pm	Seats (Total: 30) KEY 0116

CLAS309F **Special Topics in Classical Literature; Roman Civil Law**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Readings in translation.

Examines fundamental concepts of Roman civil law by focusing on the Roman approaches to perennial questions (what is ones status in the community, who is one eligible to marry, who should have custody of the children, how to make or challenge a will), and on what we know or can infer about the Romans justifications for their solutions to legal problems. Readings are in English.

0101	Gregory Bucher MWF 9:00am - 9:50am	Seats (Total: 20) HBK 1108

CLAS311 **Inventing Ancient Greek Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Who were the ancient Greeks, and were they the founders of Western civilization? The course examines the foundations of ancient Greece. Through an analysis of the historical, archaeological, and linguistic evidence, it sheds light on the so-called Black Athena Controversy, which raised doubts about the ancient Greek contribution to Western culture. The course also focuses on the impact of modern identity politics on scholarly discussions of antiquity and the ways in which the Culture Wars of the 1980s and 1990s have influenced analyses of the ancient Greek world.

0101	Eric Adler TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 0103

CLAS409W **Classics Capstone Seminar; Classical Heritage in Washington,D.C.: An Exhibit in the Making**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Comparative study of selected central aspects of both ancient Greek and Roman cultures as viewed from the standpoints of literary study, history, art history, and other fields as appropriate. Seminar format involving intensive student research.

Most of the classes will be at the Smithsonian, with the exception of Thursday, August 31st and December 7th. On these days, class will meet on campus in JMZ 0208. Students will learn about and practice exhibition and event making by focusing on archaeological materials and archives related to the Classical Mediterranean housed in the Smithsonian Institution. The course will culminate in a public display and an evening event in early 2018, prepared by a series of research projects developed over the course. Students will work on the content preparation and exhibition design and will discuss the role of museums in preserving classical heritage.

0101	Alexander Nagel Th 4:30pm - 7:00pm	Seats (Total: 15) Location: TBA

CLAS499 **Independent Study in Classical Languages and Literatures**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLAS688F **Special Topics in Classical Civilization; Roman Civil Law**

Credits: 3 Grading Method: Regular, Audit

0101	Gregory Bucher MWF 9:00am - 9:50am	Seats (Total: 10) HBK 1108

CLFS Chemical and Life Sciences Fall 2017

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609A **Special Topics; Food Safety and GM Foods**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

PL01	Lucinda Jack	Seats (Total: 15)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CLFS609E **Special Topics; Immunology**

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

PL01	Kenneth Frauwirth	Seats (Total: 8)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CLFS610 **Natural Products Chemistry**

Credits: 3 Grading Method: Regular

Restriction: Permission of CMNS-Chemical & Life Sciences department. Credit only granted for: LFSC609D or LFSC610. Formerly: LFSC609D.

Foundations of natural products chemistry; how nature goes about making (biosynthesizing) these compounds and elements of enzymology and genomics relevant to production of these compounds; relevance of natural products chemistry as a driving force for drug discovery and innovation in biotechnology.

PL01	Marjan Alaghmand	Seats (Total: 7)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CLFS620 **Modern Molecular Genetics**

Credits: 3 Grading Method: Regular, Audit

An overview of genetics including the genetic basis/components in prevalent diseases, genetically engineered organisms and foods, the importance of knowing the complete DNA sequence of organisms.

PL01	Paul Bottino	Seats (Total: 11)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CMLT Comparative Literature Fall 2017

CMLT235 **Black Diaspora Literature and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Credit only granted for: CMLT235 or ENGL235.

Examination of key works by writers of the African Diaspora. Relationship among black people across multiple geographic spaces; Africa, the Caribbean, the United States, Europe, Latin America, and Asia. Specific historical, cultural, and literary contexts; themes such as gender, sexuality, migration, slavery, freedom, and equality. Readings may include literary texts (fiction, poetry, drama), music and film. All readings in English, but drawn from multiple languages of the black diaspora, including English, Spanish, French and Portuguese.

0101	Keisha Allan	Seats (Total: 30)
	TuTh 9:30am - 10:45am	ASY 3219

CMLT242 **Introduction to Jewish Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Also offered as: JWST272. Credit only granted for: HEBR231, JWST272, or CMLT242. Formerly: HEBR231.

A survey of Jewish literature and introduction to methods of reading literature in general and Jewish literature in particular. Concern with what makes a literary corpus Jewish and other issues of canonicity. All texts in English translation.

0101	Adi Mahalel TuTh 3:30pm - 4:45pm	Seats (Total: 35) ONLINE

CMLT269C **Special Topics in Study Abroad II; Modern Catalan Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT270 **Global Literature and Social Change**

Credits: 3 Grading Method: Regular CORE: HL, D General Education: DSHU, DVUP

Comparative study of literature through selected literary works from several non-Western cultures, viewed cross-culturally in light of particular social, political, and economic perspectives.

0101	Martina Domnick TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 0125
0201	Andrea Knowles MWF 11:00am - 11:50am	Seats (Total: 30) KEY 0102

CMLT275 **World Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: WMST275. Credit only granted for: CMLT275 or WMST275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Emilee Durand MW 2:00pm - 3:15pm	Seats (Total: 30) KEY 0102

0301	Nataliya Pratsovyta TuTh 5:00pm - 6:15pm	Seats (Total: 30) KEY 0102

CMLT277 **Literatures of the Americas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Comparative study of several North, South, and Central American culture with a focus on the specificities, similarities, and divergences of their literary and cultural texts.

Also offered as ENGL278L.

0101	DeLisa Hawkes TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 1320

CMLT280 **Film Art in a Global Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

Comparative study of a variety of film traditions from around the world including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.

0101	Manon Soulet MWF 12:00pm - 12:50pm	Seats (Total: 30) SQH 1101
0201	Sara Faradji TuTh 11:00am - 12:15pm	Seats (Total: 30) KEY 0102

CMLT369A **Special Topics in Study Abroad III; Postcolonial Literatures in English I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT369T **Special Topics in Study Abroad III; Politics and Literature in the 20th Century**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT369X **Special Topics in Study Abroad III; Shakespeare and Lope de Vega**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-English department.

Contact department for information to register for this course.

CMLT398J **Special Topics in Comparative Studies; Representing the Holocaust**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as JWST346, ENGL332, and ISRL329J. Credit only granted for CMLT398J, JWST346, ENGL332, or ISRL329J. Different perspectives on how the Holocaust should be represented. Examination of a wide range of texts including fiction, memoirs, critical essays, poems and films in different languages (in translation). Emphasis on the international and comparative nature of Holocaust literary studies and investigation into the propriety of literary representation of historical catastrophe. Consideration of our own role as readers serving as witnesses to an event that has marked itself indelibly in the aesthetic history of the twentieth century.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TWS 0236

CMLT398L **Special Topics in Comparative Studies; Sexuality in the Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL329C. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 28)
	Class time/details on ELMs	ONLINE

CMLT398N **Special Topics in Comparative Studies; Gypsy Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL379V. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson	Seats (Total: 28)
	Class time/details on ELMs	ONLINE

CMLT398T **Special Topics in Comparative Studies; Postcolonial Literature in English I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Contact department for information to register for this course.

CMLT498V **Selected Topics in Comparative Studies; Lost in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CMLT679F **Topics in Comparative Studies; Contemporary Latina/o Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Seminar in modern and contemporary literature: as announced.

Also offered as ENGL658A. Credit granted for ENGL 658A or CMLT679F.

0101	Randy Ontiveros	Seats (Total: 14)
	M 3:30pm - 6:00pm	TWS 3250

CMLT679J **Topics in Comparative Studies; Africana Theory and Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Seminar in modern and contemporary literature: as announced.

Also offered as ENGL628D. Credit granted for ENGL 628D or CMLT679J.

0101	Zita Nunes	Seats (Total: 14)
	Tu 3:30pm - 6:00pm	TWS 3136

CMLT699 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member.

Contact department for information to register for this course.

CMLT788I **Practicum in Comparative Studies; Themes and Methods in Comparative Studies**

Credits: 1 Grading Method: Sat-Fail

Practical professional training for individuals and groups of students in supervised settings.

Class meets from 1:30pm-3:30pm in TWS 3134 on the following dates: 9/29, 10/27, 11/10.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

CMLT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CMLT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CMLT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CMSC Computer Science Fall 2017

CMSC100 **Bits and Bytes of Computer Science**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: For first time freshmen and first time transfer computer science majors.

Students are introduced to the field (and disciplines) of computer science within a small classroom setting. They will learn to make a successful transition from high school to the university, while exploring study skills, student success plans and research opportunities.

0101	Amy Vaillancourt M 4:00pm - 4:50pm	Seats (Total: 25) CSI 1121	
0201	Alyssa Neuner W 4:00pm - 4:50pm	Seats (Total: 25) CSI 1121	

CMSC106 **Introduction to C Programming**

Credits: 4 Grading Method: Regular

Prerequisite: MATH115. Restriction: Must not be in Computer Science program; and must not have completed any courses from CMSC131-499 course range. Credit only granted for: CMSC106, CMSC122, or INST126.

Design and analysis of programs in C. An introduction to computing using structured programming concepts. Intended for students with no or minimal programming experience.

0101	Ilchul Yoon MW 5:00pm - 6:15pm MW 3:00pm - 3:50pm	Seats (Total: 50) CSI 1121 CSI 1121	 Discussion

CMSC122 **Introduction to Computer Programming via the Web**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSSP

Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: CMSC106, CMSC122, or INST126.

Introduction to computer programming in the context of developing full featured dynamic web sites. Uses a problem solving approach to teach basics of program design and implementation using JavaScript; relates these skills to creation of dynamic web sites; then explores both the potential and limits of web-based information sources for use in research. Intended to help relate a student's major to these emerging technologies.

0101	Fawzi Emad MWF 11:00am - 11:50am	Seats (Total: 85) CSI 3117
0201	Fawzi Emad MWF 12:00pm - 12:50pm	Seats (Total: 85) CSI 3117

0301	Fawzi Emad MWF 1:00pm - 1:50pm	Seats (Total: 85) CSI 3117	

CMSC131 **Object-Oriented Programming I**

(Perm req)

Credits: 4 Grading Method: Regular

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	Evan Golub MWF 4:00pm - 4:50pm MW 8:00am - 8:50am	Seats (Total: 40) ESJ 0202 CSI 2120	Discussion
0102	Evan Golub MWF 4:00pm - 4:50pm MW 2:00pm - 2:50pm	Seats (Total: 40) ESJ 0202 CSI 1121	Discussion
0103	Evan Golub MWF 4:00pm - 4:50pm MW 10:00am - 10:50am	Seats (Total: 40) ESJ 0202 CSI 2120	Discussion
0104	Evan Golub MWF 4:00pm - 4:50pm MW 11:00am - 11:50am	Seats (Total: 40) ESJ 0202 CSI 2120	Discussion
0105	Evan Golub MWF 4:00pm - 4:50pm MW 2:00pm - 2:50pm	Seats (Total: 40) ESJ 0202 CSI 2120	Discussion
0106	Evan Golub MWF 4:00pm - 4:50pm MW 9:00am - 9:50am	Seats (Total: 40) ESJ 0202 CSI 2120	Discussion
0107	Evan Golub MWF 4:00pm - 4:50pm MW 10:00am - 10:50am	Seats (Total: 44) ESJ 0202 CSI 1122	Discussion

0108	Evan Golub MWF 4:00pm - 4:50pm MW 11:00am - 11:50am	Seats (Total: 44) ESJ 0202 CSI 1122	Discussion
0401	Ilchul Yoon, William Pugh MWF 3:00pm - 3:50pm MW 1:00pm - 1:50pm	Seats (Total: 38) ESJ 0202 CSI 2120	Discussion
0402	Ilchul Yoon, William Pugh MWF 3:00pm - 3:50pm MW 8:00am - 8:50am	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion
0403	William Pugh, Ilchul Yoon MWF 3:00pm - 3:50pm MW 12:00pm - 12:50pm	Seats (Total: 78) ESJ 0202 ESJ 0215	Discussion
0404	Ilchul Yoon, William Pugh MWF 3:00pm - 3:50pm MW 9:00am - 9:50am	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion
0406	Ilchul Yoon, William Pugh MWF 3:00pm - 3:50pm MW 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 2118	Discussion
0407	William Pugh, Ilchul Yoon MWF 3:00pm - 3:50pm MW 10:00am - 10:50am	Seats (Total: 78) ESJ 0202 ESJ 1215	Discussion
0409	Ilchul Yoon, William Pugh MWF 3:00pm - 3:50pm MW 2:00pm - 2:50pm	Seats (Total: 42) ESJ 0202 ESJ 1309	Discussion
FC01	Nelson Padua-Perez MW 6:00pm - 7:15pm Tu 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 94) CSI 1115 CSI 1115	Discussion

CMSC131A **Object-Oriented Programming I**

(Perm req) Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	David Van Horn MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 36) CSI 1115 CSI 2120	 Discussion
0102	David Van Horn MWF 11:00am - 11:50am MW 5:00pm - 5:50pm	Seats (Total: 36) CSI 1115 CSI 2120	 Discussion
0103	David Van Horn MWF 11:00am - 11:50am MW 4:00pm - 4:50pm	Seats (Total: 36) CSI 1115 CSI 2120	 Discussion
0104	David Van Horn MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion

CMSC132 **Object-Oriented Programming II**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam. Or permission of the department based on satisfactory performance on the department placement exam; and minimum grade of C- in MATH140; and permission of CMNS-Computer Science department.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

0101	Pedram Sadeghian MWF 10:00am - 10:50am MW 11:00am - 11:50am	Seats (Total: 34) CSI 1115 CSI 2107	 Discussion
0102	Pedram Sadeghian MWF 10:00am - 10:50am MW 12:00pm - 12:50pm	Seats (Total: 34) CSI 1115 CSI 2107	 Discussion

0103	Pedram Sadeghian MWF 10:00am - 10:50am MW 1:00pm - 1:50pm	Seats (Total: 34) CSI 1115 CSI 2107	 Discussion
0104	Pedram Sadeghian MWF 10:00am - 10:50am MW 2:00pm - 2:50pm	Seats (Total: 34) CSI 1115 CSI 2107	 Discussion
0201	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion
0202	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion
0203	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0204	Pedram Sadeghian MWF 1:00pm - 1:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0301	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0302	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0303	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 1121	 Discussion
0304	Pedram Sadeghian MWF 12:00pm - 12:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 3117	 Discussion

0401	Nelson Padua-Perez MWF 9:00am - 9:50am MW 3:00pm - 3:50pm	Seats (Total: 36) CSI 1115 CSI 2107	Discussion
0402	Nelson Padua-Perez MWF 9:00am - 9:50am MW 4:00pm - 4:50pm	Seats (Total: 36) CSI 1115 CSI 2107	Discussion
0403	Nelson Padua-Perez MWF 9:00am - 9:50am MW 10:00am - 10:50am	Seats (Total: 36) CSI 1115 CSI 2107	Discussion
0404	Nelson Padua-Perez MWF 9:00am - 9:50am MW 5:00pm - 5:50pm	Seats (Total: 36) CSI 1115 CSI 2107	Discussion

CMSC132H **Object-Oriented Programming II**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam. Or permission of the department based on satisfactory performance on the department placement exam; and minimum grade of C- in MATH140; and permission of CMNS-Computer Science department.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

0101	Nelson Padua-Perez MWF 10:00am - 10:50am MW 5:00pm - 5:50pm	Seats (Total: 26) CSI 3117 CSI 3120	Discussion

CMSC216 **Introduction to Computer Systems**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Corequisite: CMSC250. Credit only granted for: CMSC212, (CMSC213 and CMSC313), or CMSC216.

Machine representation of data including integers and floating point. Modern computer architectural features and their interaction with software (registers, caches). Interaction between user programs and the OS: system class, process, and thread management. Optimizing software to improve runtime performance using both compilers and hand turning.

0101	Laurence Herman TuTh 9:30am - 10:45am MW 8:00am - 8:50am	Seats (Total: 37) CSI 1115 CSI 1122	Discussion
0102	Laurence Herman TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 37) CSI 1115 CSI 1122	Discussion
0103	Laurence Herman TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 3118	Discussion
0104	Laurence Herman TuTh 9:30am - 10:45am MW 12:00pm - 12:50pm	Seats (Total: 37) CSI 1115 CSI 1122	Discussion
0201	A.U. Shankar TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 32) ESJ 2208 CSI 3118	Discussion
0202	A.U. Shankar TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 36) ESJ 2208 CSI 3120	Discussion
0203	A.U. Shankar TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 2208 CSI 2118	Discussion
0204	A.U. Shankar TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 36) ESJ 2208 CSI 2120	Discussion
0301	Laurence Herman TuTh 5:00pm - 6:15pm MW 12:00pm - 12:50pm	Seats (Total: 32) HJP 0226 CSI 3120	Discussion

0302	Laurence Herman TuTh 5:00pm - 6:15pm MW 2:00pm - 2:50pm	Seats (Total: 32) HJP 0226 CSI 3118	Discussion
0303	Laurence Herman TuTh 5:00pm - 6:15pm MW 1:00pm - 1:50pm	Seats (Total: 32) HJP 0226 CSI 1122	Discussion
0304	Laurence Herman TuTh 5:00pm - 6:15pm MW 1:00pm - 1:50pm	Seats (Total: 34) HJP 0226 CSI 2117	Discussion
0305	Laurence Herman TuTh 5:00pm - 6:15pm MW 3:00pm - 3:50pm	Seats (Total: 32) HJP 0226 CSI 3118	Discussion
0306	Laurence Herman TuTh 5:00pm - 6:15pm MW 4:00pm - 4:50pm	Seats (Total: 32) HJP 0226 CSI 3118	Discussion
0307	Laurence Herman TuTh 5:00pm - 6:15pm MW 4:00pm - 4:50pm	Seats (Total: 32) HJP 0226 CSI 3120	Discussion
0308	Laurence Herman TuTh 5:00pm - 6:15pm MW 5:00pm - 5:50pm	Seats (Total: 32) HJP 0226 CSI 3118	Discussion

CMSC250 **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Jason Filippou TuTh 3:30pm - 4:45pm MW 10:00am - 10:50am	Seats (Total: 34) CSI 1115 CSI 3120	Discussion

0102	Jason Filippou TuTh 3:30pm - 4:45pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 3120	 Discussion
0103	Jason Filippou TuTh 3:30pm - 4:45pm MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion
0104	Jason Filippou TuTh 3:30pm - 4:45pm MW 10:00am - 10:50am	Seats (Total: 34) CSI 1115 CSI 2117	 Discussion
0201	Jason Filippou TuTh 12:30pm - 1:45pm MW 2:00pm - 2:50pm	Seats (Total: 36) ESJ 0202 CSI 3120	 Discussion
0202	Jason Filippou TuTh 12:30pm - 1:45pm MW 10:00am - 10:50am	Seats (Total: 36) ESJ 0202 CSI 1121	 Discussion
0203	Jason Filippou TuTh 12:30pm - 1:45pm MW 11:00am - 11:50am	Seats (Total: 34) ESJ 0202 CSI 1121	 Discussion
0204	Jason Filippou TuTh 12:30pm - 1:45pm MW 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 2117	 Discussion
0205	Jason Filippou TuTh 12:30pm - 1:45pm MW 8:00am - 8:50am	Seats (Total: 32) ESJ 0202 CSI 3120	 Discussion
0206	Jason Filippou TuTh 12:30pm - 1:45pm MW 9:00am - 9:50am	Seats (Total: 34) ESJ 0202 CSI 3120	 Discussion
0207	Jason Filippou TuTh 12:30pm - 1:45pm MW 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 3118	 Discussion

0208	Jason Filippou TuTh 12:30pm - 1:45pm MW 3:00pm - 3:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0401	Roger Eastman TuTh 2:00pm - 3:15pm MW 8:00am - 8:50am	Seats (Total: 34) CSI 1115 CSI 2117	Discussion
0402	Roger Eastman TuTh 2:00pm - 3:15pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2117	Discussion
0403	Roger Eastman TuTh 2:00pm - 3:15pm MW 5:00pm - 5:50pm	Seats (Total: 34) CSI 1115 CSI 1122	Discussion
0404	Roger Eastman TuTh 2:00pm - 3:15pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2117	Discussion

CMSC250H **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Thomas Goldstein TuTh 11:00am - 12:15pm MW 4:00pm - 4:50pm	Seats (Total: 32) CSI 3120 CSI 2118	Discussion

CMSC298A **Special Topics in Computer Science**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialize topic or project.

Contact department for information to register for this course.

CMSC320 **Introduction to Data Science**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

0101	John Dickerson, Amol Deshpande MW 2:00pm - 3:15pm	Seats (Total: 185) ESJ 0224	

CMSC330 **Organization of Programming Languages**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

The semantics of programming languages and their run-time organization. Several different models of languages are discussed, including procedural (e.g., C, Pascal), functional (e.g., ML, LISP), rule-based (e.g., Prolog), and object-oriented (e.g., C++, Smalltalk). Run-time structures, including dynamic versus static scope rules, storage for strings, arrays, records, and object inheritance are explored.

0101	Anwar Mamat TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0102	Anwar Mamat TuTh 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0103	Anwar Mamat TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion
0104	Anwar Mamat TuTh 3:30pm - 4:45pm F 2:00pm - 2:50pm	Seats (Total: 32) ESJ 0202 CSI 2120	 Discussion

0105	Anwar Mamat TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0106	Anwar Mamat TuTh 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0107	Anwar Mamat TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0108	Anwar Mamat TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 32) ESJ 0202 CSI 3120	Discussion
0301	Anwar Mamat TuTh 11:00am - 12:15pm F 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0302	Anwar Mamat TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 3120	Discussion
0303	Anwar Mamat TuTh 11:00am - 12:15pm F 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 3120	Discussion
0304	Anwar Mamat TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0401	Jeffrey Foster TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 35) CSI 1115 CSI 2107	Discussion
0402	Jeffrey Foster TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 35) CSI 1115 CSI 2107	Discussion

0403	Jeffrey Foster TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 35) CSI 1115 CSI 2107	 Discussion
0404	Jeffrey Foster TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 35) CSI 1115 CSI 2107	 Discussion

CMSC351 **Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0101	Clyde Kruskal MWF 2:00pm - 2:50pm	Seats (Total: 130) CSI 1115	
0201	Clyde Kruskal MWF 12:00pm - 12:50pm	Seats (Total: 138) ESJ 2204	
0301	Mohammad Hajiaghayi MWF 4:00pm - 4:50pm	Seats (Total: 132) CSI 1115	
0401	Clyde Kruskal MWF 3:00pm - 3:50pm	Seats (Total: 130) CSI 1115	

CMSC389K **Special Topics in Computer Science; Full-stack Web Development with Node.js**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: CMSC216 and CMSC250 with a grade of C- or better. Restriction: Permission of CMNS-Computer Science department. Students will be provided with a comprehensive, practical introduction to modern full-stack web development using JavaScript and Node.js. Starting with basic HTML/CSS/JavaScript. Then, we will move into Node.js and learn how to deploy a website from there.We will learn about Express.js (server-side development module) and MongoDB (database) in order to create a complete web application.

0101	John Dickerson	Seats (Total: 30)
	F 3:00pm - 3:50pm	CSI 3118

CMSC389L **Special Topics in Computer Science; Practical Cloud Computing with AWS**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: CMSC250 and CMSC330 with a grade of C- or better. Restriction: Permission of CMSN-Computer Science department. Students are provided with a practical and project-oriented introduction to cloud computing with Amazon Web Services (AWS). They will learn how to build applications using a variety of AWS services, including S3, EC2, Lambda, and Beanstalk. Culminating with a final resume-worthy project that will be built, deployed, and demoed to the class.

0101	Neil Spring	Seats (Total: 30)
	F 1:00pm - 1:50pm	CSI 3118

CMSC389N **Special Topics in Computer Science; Introduction to PHP and Javascript**

(Perm req)

Credits: 3 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

0101	Nelson Padua-Perez	Seats (Total: 78)
	MW 2:00pm - 3:15pm	ESJ 0215

CMSC389O **Special Topics in Computer Science; The Coding Interview**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: CMSC216 and CMSC250 with a grade of C- or better. Restriction: Permission of CMNS-Computer Science department. Students will be provided with a comprehensive, practical introduction to technical interviews. Starting with basic topics such as Big O and String Manipulation. We will then move into more complex topics such as Bit Manipulation and Dynamic Programming. Most of the classes will be "In-Class Interviews" and take-home assignments will simulate real interview settings.

0101	David Levin	Seats (Total: 30)
	F 2:00pm - 2:50pm	ESJ 2101

CMSC390 **Honors Paper**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be admitted to the Computer Science Honors Program.

Special study or research directed toward preparation of honors paper.

Contact department for information to register for this course.

CMSC396H **Computer Science Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Must have admission into Computer Science Departmental Honors Program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC297 or CMSC396. Formerly: CMSC297.

Overview of computer science research activities, techniques, and tools. Diverse research areas will be covered, including systems, networks, artificial intelligence, human-computer interaction, software engineering, graphics, vision, and theory.

0101	David Levin	Seats (Total: 32)
	W 1:00pm - 1:50pm	AVW 4172

CMSC411 **Computer Systems Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Michelle Hugue MW 3:30pm - 4:45pm	Seats (Total: 85) CSI 2117	

CMSC412 **Operating Systems**

(Perm req)

Credits: 4 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and 1 course with a minimum grade of C- from (CMSC414, CMSC417, CMSC420, CMSC430, CMSC433, CMSC435, ENEE440, ENEE457). Restriction: Permission of CMNS-Computer Science department; or must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)). Credit only granted for: CMSC412 or ENEE447.

A hands-on introduction to operating systems, including topics in: multiprogramming, communication and synchronization, memory management, IO subsystems, and resource scheduling polices. The laboratory component consists of constructing a small kernel, including functions for device IO, multi-tasking, and memory management.

0101	Neil Spring TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 25) CSI 1121 CSI 1121	 Discussion
0102	Neil Spring TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 25) CSI 1121 CSI 1121	 Discussion

CMSC414 **Computer and Network Security**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC414, ENEE459C, or ENEE457.

An introduction to the topic of security in the context of computer systems and networks. Identify, analyze, and solve network-related security problems in computer systems. Fundamentals of number theory, authentication, and encryption technologies, as well as the practical problems that have to be solved in order to make those technologies workable in a networked environment, particularly in the wide-area Internet environment.

0101	Michael Marsh MW 3:30pm - 4:45pm	Seats (Total: 78) ESJ 0215	

0201	Michelle Mazurek TuTh 9:30am - 10:45am	Seats (Total: 85) CSI 3117
0301	Michael Marsh MW 2:00pm - 3:15pm	Seats (Total: 78) ESJ 2212

CMSC417 **Computer Networks**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Computer networks and architectures. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, analysis, and testing.

0101	Ashok Agrawala TuTh 12:30pm - 1:45pm	Seats (Total: 65) CSI 3117
0201	Samrat Bhattacharjee TuTh 3:30pm - 4:45pm	Seats (Total: 40) CSI 3120

CMSC420 **Data Structures**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Description, properties, and storage allocation of data structures including lists and trees. Algorithms for manipulating structures. Applications from areas such as data processing, information retrieval, symbol manipulation, and operating systems.

0101	Michelle Hugue TuTh 2:00pm - 3:15pm	Seats (Total: 85) CSI 3117
0201	Michelle Hugue TuTh 3:30pm - 4:45pm	Seats (Total: 50) CSI 1122

0301	Hanan Samet TuTh 11:00am - 12:15pm	Seats (Total: 50) CSI 1122

CMSC421 **Introduction to Artificial Intelligence**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Areas and issues in artificial intelligence, including search, inference, knowledge representation, learning, vision, natural languages, expert systems, robotics. Implementation and application of programming languages (e.g. LISP, PROLOG, SMALLTALK), programming techniques (e.g. pattern matching, discrimination networks) and control structures (e.g. agendas, data dependencies).

0101	Dana Nau TuTh 3:30pm - 4:45pm	Seats (Total: 85) CSI 3117

CMSC422 **Introduction to Machine Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH461); and permission of CMNS-Computer Science department.

Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.

0101	James Reggia TuTh 12:30pm - 1:45pm	Seats (Total: 85) CSI 2117
0201	David Jacobs MW 2:00pm - 3:15pm	Seats (Total: 85) CSI 2117

CMSC423 **Bioinformatic Algorithms, Databases, and Tools**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to the main algorithms, databases, and tools used in bioinformatics. Topics may include assembly and analysis of genome sequences, reconstructing evolutionary histories, predicting protein structure, and clustering of biological data. Use of scripting languages to perform analysis tasks on biological data. No prior knowledge of biology is assumed.

0101	Mihai Pop TuTh 11:00am - 12:15pm	Seats (Total: 78) ESJ 2212

CMSC424 **Database Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Students are introduced to database systems and motivates the database approach as a mechanism for modeling the real world. An in-depth coverage of the relational model, logical database design, query languages, and other database concepts including query optimization, concurrency control; transaction management, and log based crash recovery. Distributed and Web database architectures are also discussed.

0101	Nicholas Roussopoulos TuTh 11:00am - 12:15pm	Seats (Total: 80) CSI 2117
0201	Peter Keleher MW 3:30pm - 4:45pm	Seats (Total: 85) CSI 3117

CMSC426 **Computer Vision**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to basic concepts and techniques in computervision. This includes low-level operations such as image filtering and edge detection, 3D reconstruction of scenes using stereo and structure from motion, and object detection, recognition and classification.

0101	Larry Davis	Seats (Total: 50)
	TuTh 2:00pm - 3:15pm	CSI 1122

CMSC427 **Computer Graphics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240; and minimum grade of C- in CMSC420; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to the principles of computer graphics. Includes an introduction to graphics displays and systems. Introduction to the mathematics of affine and projective transformations, perspective, curve and surface modeling, algorithms for hidden-surface removal, color models, methods for modeling illumination, shading, and reflection.

0101	Roger Eastman	Seats (Total: 50)
	TuTh 3:30pm - 4:45pm	CSI 1121

CMSC430 **Introduction to Compilers**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.

0101	Thomas Gilray	Seats (Total: 50)
	MW 2:00pm - 3:15pm	CSI 1122

CMSC433 **Programming Language Technologies and Paradigms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Programming language technologies (e.g., object-oriented programming), their implementations and use in software design and implementation.

0101	Walter Cleaveland	Seats (Total: 88)
	TuTh 5:00pm - 6:15pm	CSI 3117

CMSC434 **Introduction to Human-Computer Interaction**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Assess usability by quantitative and qualitative methods. Conduct task analyses, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Apply design processes and guidelines to develop professional quality user interfaces. Build low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools such as graphic editors and a graphical programming environment (eg: Visual Basic, Java).

0101	Celeste Paul	Seats (Total: 47)
	TuTh 11:00am - 12:15pm	CSI 2107

CMSC435 **Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (CMSC412, CMSC417, CMSC420, CMSC430, CMSC433); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

State-of-the-art techniques in software design and development. Laboratory experience in applying the techniques covered. Structured design, structured programming, top-down design and development, segmentation and modularization techniques, iterative enhancement, design and code inspection techniques, correctness, and chief-programmer teams. The development of a large software project.

0101	James Purtilo	Seats (Total: 48)
	TuTh 12:30pm - 1:45pm	CSI 1121

CMSC436 **Programming Handheld Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.

0101	Adam Porter	Seats (Total: 88)
	TuTh 9:30am - 10:45am	CSI 2117

CMSC451 **Design and Analysis of Computer Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include sorting, selection, graph algorithms, and basic algorithm design paradigms (such as divide-and-conquer, dynamic programming and greedy algorithms), lower bounds and NP-completeness.

0101	David Mount	Seats (Total: 85)
	TuTh 3:30pm - 4:45pm	CSI 2117
0201	Aravind Srinivasan	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	CSI 1122

CMSC456 **Cryptology**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses). Or permission of instructor. Also offered as: MATH456, ENEE456. Credit only granted for: MATH456, CMSC456, or ENEE456.

The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.

0101	Samuel Ranellucci	Seats (Total: 50)
	MW 5:00pm - 6:15pm	CSI 2117

CMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Daisy Dahiya MWF 11:00am - 11:50am	Seats (Total: 29) MTH 0303
0201	Jacob Bedrossian MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH 0405
0301	Tobias von Petersdorff MWF 2:00pm - 2:50pm	Seats (Total: 29) MTH 0411
0401	Juan Pablo Borthagaray MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0102

CMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC466. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Dionisios Margetis MWF 9:00am - 9:50am	Seats (Total: 30) MTH 0303

CMSC474 **Introduction to Computational Game Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Credit only granted for: CMSC474, ECON414, GVPT390 or GVPT399A.

Game theory deals with interactions among agents (either human or computerized) whose objectives and preferences may differ from the objectives and preferences of the other agents. It will also provide a comprehensive introduction to game theory, concentrating on its computational aspects.

0101	Mohammad Hajiaghayi	Seats (Total: 50)
	MW 2:00pm - 3:15pm	CSI 3117

CMSC498A **Selected Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC498C **Selected Topics in Computer Science; Randomized Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program

0101	David Harris	Seats (Total: 40)
	TuTh 5:00pm - 6:15pm	CSI 1121

CMSC498E **Selected Topics in Computer Science; Computer Systems Security**

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Restriction: Permission of department. Theoretical and practical aspects of computer systems security. Topics covered include symmetric/asymmetric encryption, message authentication, digital signatures, access control, as well as network security, web security and cloud security. Students acquire tools necessary for designing secure computer systems and programs and for defending against malicious threats (e.g., viruses, worms, denial of service).

0101	Dana Dachman-Soled	Seats (Total: 10)
	MW 11:00am - 12:15pm	EGR 1108

CMSC498V **Selected Topics in Computer Science; Advanced Functional Programming**

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

0101	Niki Vazou	Seats (Total: 40)
	TuTh 9:30am - 10:45am	CSI 2120

CMSC499A **Independent Undergraduate Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC631 **Program Analysis and Understanding**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC330; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Techniques for static analysis of source code and modern programming paradigms. Analysis techniques: data flow analysis, program dependence graphs, program slicing, abstract interpretation. The meaning of programs: denotational semantics, partial evaluation. Advanced treatment of abstraction mechanisms: polymorphic types, operation overloading, inheritance, object-oriented programming and ML-like programming languages.

0101	Michael Hicks	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 2107

CMSC641 **Principles of Data Science**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Data Science Post-Baccalaureate Certificate of Professional Studies program; and permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of what data science means and systems and tools commonly used for data science, and illustrates the principles of data science through several case studies.

PCD1	Amol Deshpande	Seats (Total: 40)
	W 7:00pm - 9:30pm	CSI 3120
	Restricted to students in the Graduate Certificate in Professional Studies in Data Science.	

CMSC643 **Machine Learning and Data Mining**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Data Science Post-Baccalaureate Certificate of Professional Studies program; and permission of CMNS-Computer Science department.

Provides a broad overview of key machine learning and data mining algorithms, and how to apply those to very large datasets. Topics covered include decision trees, linear models for classification and regression, support vector machines, neural networks and deep learning, online learning, recommendation systems, clustering and dimensionality reduction, and systems for large-scale machine learning.

PCD1	Hector Corrada Bravo	Seats (Total: 40)
	Tu 7:00pm - 9:30pm	CSI 2120
	Restricted to students in the Graduate Certificate in Professional Studies in Data Science.	

CMSC652 **Complexity Theory**

Credits: 3 Grading Method: Regular

Prerequisite: CMSC451 or CMSC452; or permission of instructor. Credit only granted for: CMSC652 or CMSC858G. Formerly: CMSC858G.

This course will define what it means for a problem to be hard (or easy in a variety of ways. The emphasis will be on natural problems. Topics may include NP-completeness, Sparse Sets, Graph Isomoprhism (why it is thought to not be NP-complete), Counting problems, and approximation problems.

0101	Xiaodi Wu	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 2120

CMSC660 **Scientific Computing I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have knowledge of C or Fortran. And CMSC466, AMSC466, AMSC460, or CMSC460; or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: AMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software for each topic.

0101	Jacob Bedrossian	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	MTH B0425

CMSC663 **Advanced Scientific Computing I**

Credits: 3 Grading Method: Regular

Also offered as: AMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence CMSC663, CMSC664 students work on a year-long individual project to develop software for a scientific task in a high perfomance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Howard Elman	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PHY 4222

CMSC666 **Numerical Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: AMSC666. Credit only granted for: AMSC666 or CMSC666.

Interpolation and approximation, numerical integration, solution algorithms for nonlinear systems of equations, numerical optimization.

Click here for more course information.

0101	Eitan Tadmor	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 4122

CMSC723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: LING723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Additional information: May only receive PhD Comp. credit for CMSC723 or CMSC823, not both.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	CSI 1121

CMSC725 **Geographical Information Systems and Spatial Databases**

Credits: 3 Grading Method: Regular

Prerequisite: CMSC424 and CMSC420; or permission of instructor.

Topics in geographic information systems and spatial databases. Integrates related results from databases, cartography, geography, computer graphics, file access methods, computational geometry, image processing, data structures, and programming languages. Topics include: cartographic modeling, principles of cartography, methods from computational geometry, principles of spatial databases, access methods, and spatial data structures. The architecture of some existing spatial databases and geographic information systems will be examined in greater detail.

0101	Hanan Samet	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	CSI 3118

CMSC726 **Machine Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor.

An introduction to modern statistical data analysis using machine learning techniques. The course quickly surveys elementary statistical models (decision trees, nearest neighbors and linear regression) and moves on to more complex algorithms such as support vector machines, boosting, neural networks, structured prediction, apprenticeship learning, online learning, bandits, recommender systems and reinforcement learning. Throughout an emphasis is placed on mathematical rigor.

0101	Jordan Boyd-Graber Ying	Seats (Total: 60)
	MW 3:30pm - 4:45pm	ESJ 2212

CMSC737 **Fundamentals of Software Testing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC435; or students who have taken courses with comparable content may contact the department; or permission of instructor. Formerly: CMSC838M.

Examine fundamental software testing and related program analysis techniques. In particular, the important phases of testing will be reviewed, emphasizing th significance of each phase when testing different types of software. Concepts include: test generation, oracles, prioritization and coverage, regression and mutation testing, and program analysis.

0101	Atif Memon	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSI 2107

CMSC740 **Advanced Computer Graphics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH240 and CMSC420; or permission of instructor.

An introduction to the principles of computer graphics. Includes an introduction to graphics displays and systems, introduction to the mathematics of affine and projective transformations, perspective, curve and surface modeling, algorithms for hidden-surface removal, color models, methods for modeling illumination, shading, and reflection.

0101	Matthias Zwicker	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	CSI 3118

CMSC763 **Advanced Linear Numerical Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: AMSC666 or CMSC666; or permission of instructor. Also offered as: AMSC763. Credit only granted for: AMSC600, CMSC760, AMSC763, or CMSC763.. Formerly: CMSC760.

Advanced topics in numerical linear algebra, such as dense eigenvalue problems, sparse elimination, iterative methods, and other topics.

Also offered as AMSC763. Credit granted for CMSC763 or AMSC763.

0101	Howard Elman	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 3120

CMSC798 **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

CMSC798A **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

CMSC majors only. Other majors require permission of department.

Contact department for information to register for this course.

CMSC798E **Graduate Seminar in Computer Science**

Credits: 1

Grading Method: Regular, Audit

0101	Hector Corrada Bravo	Seats (Total: 40)
	F 11:00am - 12:50pm	CSI 2117

CMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CMSC818A **Advanced Topics in Computer Systems; Advanced Topics in Computer Systems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

Contact department for information to register for this course.

CMSC818E **Advanced Topics in Computer Systems; Distributed and Cloud-Based Storeage Systems**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	Peter Keleher	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 3118

CMSC818O **Advanced Topics in Computer Systems; Computer and Network Security**

Credits: 3 Grading Method: Regular

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	David Levin	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	AVW 4172

CMSC828A **Advanced Topics in Information Processing**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC828C **Advanced Topics in Information Processing**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Ramalingam Chellappa	Seats (Total: 75)
	MW 11:00am - 12:15pm	ATL 1113

CMSC828E **Advanced Topics in Information Processing; From Data to Insights**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Vanessa Frias-Martinez	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0123

CMSC828N **Advanced Topics in Information Processing; Database System Architecture and Implementation**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Prerequisite: CMSC424; or students who have taken courses with comparable content may contact the department; or permission of instructor.

0101	Daniel Abadi	Seats (Total: 20)
	MW 2:00pm - 3:15pm	AVW 3258

CMSC828O **Advanced Topics in Information Processing; Computational and Mathematical Analysis of Biological Networks across Scales**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Hector Corrada Bravo	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSI 1122

CMSC828P **Advanced Topics in Information Processing; Algorithms and Machine Learning for Analyzing Mutations in Cancer**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Max Leiserson	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CSI 3118

CMSC828R **Advanced Topics in Information Processing; Machine Learning: Spectral Methods and Reinforcement Learning**

Credits: 3 Grading Method: Regular

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Furong Huang	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	CSI 2120

CMSC828T **Advanced Topics in Information Processing; Vision, Planning and Control in Aerial Robotics**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	John Aloimonos	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	CSI 2107

CMSC838A **Advanced Topics in Programming Languages**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.

Contact department for information to register for this course.

CMSC858A **Advanced Topics in Theory of Computing**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC858K **Advanced Topics in Theory of Computing; Introduction to Quantum Information Processing**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0101	Andrew Childs	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	CSI 3120

CMSC878A **Advanced Topics in Numerical Methods**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of numerical methods to suit the interest and background of students.

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Prerequisite: permission of instructor. Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students. May be repeated for credit.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM107 Oral Communication: Principles and Practices

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

Attendance on the first day of classes is mandatory.

0101	Skye de Saint Felix MWF 8:00am - 8:50am	Seats (Total: 19) SKN 0104
0201	Neha Kamran MWF 8:00am - 8:50am	Seats (Total: 19) SKN 1112
0301	Victoria Ledford MWF 8:00am - 8:50am	Seats (Total: 19) SKN 1115
0401	Sarah Aghazadeh MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1176
0501	Joshua Wood MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1180
1001	Jon Hoffman TuTh 2:00pm - 3:15pm	Seats (Total: 19) BPS 1232
1101	Skye de Saint Felix MWF 9:00am - 9:50am	Seats (Total: 19) SKN 0104
1201	Neha Kamran MWF 9:00am - 9:50am	Seats (Total: 19) SKN 1112
1301	Victoria Ledford MWF 9:00am - 9:50am	Seats (Total: 19) SKN 1115
1401	Sarah Aghazadeh MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1176
1501	Joshua Wood MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1180

2001	Jon Hoffman TuTh 11:00am - 12:15pm	Seats (Total: 19) TLF 1103
2101	Thomas McCloskey MWF 9:00am - 9:50am	Seats (Total: 19) TLF 1103
2301	Daniel Foster MWF 10:00am - 10:50am	Seats (Total: 19) SKN 0104
2401	Junqiao Chen MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1112
2501	Rodney Schwartz MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1115
2601	Alex Thomas MWF 10:00am - 10:50am	Seats (Total: 19) ARC 1123
2701	Cassondra Pope MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1180
2801	Gareth Williams MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1184
2901	Jim Golden MWF 10:00am - 10:50am	Seats (Total: 19) ARC 1125
3101	Thomas McCloskey MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0119
3301	Daniel Foster MWF 11:00am - 11:50am	Seats (Total: 19) SKN 0104
3401	Junqiao Chen MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1112
3501	Rodney Schwartz MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1115
3601	Alex Thomas MWF 11:00am - 11:50am	Seats (Total: 19) ARC 1123

3701	Yan Qin MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1180
3801	Mollie Kaufer MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1184
3901	Jim Golden MWF 11:00am - 11:50am	Seats (Total: 19) ARC 1125
4001	Joshua Wood MWF 11:00am - 11:50am	Seats (Total: 19) TWS 1320
4101	Thomas McCloskey MWF 11:00am - 11:50am	Seats (Total: 19) JMZ 0205
4301	Daniel Foster MWF 1:00pm - 1:50pm	Seats (Total: 19) SKN 1112
4401	Rodney Schwartz MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1176
4501	Gareth Williams MWF 1:00pm - 1:50pm	Seats (Total: 19) WDS 1127
4601	Sumin Fang MWF 1:00pm - 1:50pm	Seats (Total: 19) SQH 1111
4701	Thomas McCloskey MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0123
4801	Anne Smithson MWF 1:00pm - 1:50pm	Seats (Total: 19) SQH 1123
4901	Daniel Foster MWF 2:00pm - 2:50pm	Seats (Total: 19) SKN 1112
5001	Rodney Schwartz MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1176
5101	Gareth Williams MWF 2:00pm - 2:50pm	Seats (Total: 19) WDS 1127

5201	Sumin Fang MWF 2:00pm - 2:50pm	Seats (Total: 19) SQH 1111
5401	Anne Smithson MWF 2:00pm - 2:50pm	Seats (Total: 19) SQH 1123
5601	Brooke Fowler MW 2:00pm - 3:15pm	Seats (Total: 19) ASY 3221
5701	Raphael Mazzone MW 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
5801	Kimberley Hannah-Prater MW 2:00pm - 3:15pm	Seats (Total: 19) PLS 1184
5901	Jim Golden MW 2:00pm - 3:15pm	Seats (Total: 19) JMZ 1103
6101	Brooke Fowler MW 3:30pm - 4:45pm	Seats (Total: 19) ASY 3221
6201	David Payne MW 3:30pm - 4:45pm	Seats (Total: 19) PLS 1180
6301	Skye de Saint Felix MW 3:30pm - 4:45pm	Seats (Total: 19) PLS 1184
6401	Jim Golden MW 3:30pm - 4:45pm	Seats (Total: 19) JMZ 1103
6501	Daniel Foster MW 3:30pm - 4:45pm	Seats (Total: 19) HBK 0108
6601	Tori Mends-Cole MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 0104
6701	Jim Golden MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 1112
6801	Mark Fernando MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 1115

6901	Rodney Schwartz MW 5:00pm - 6:15pm	Seats (Total: 19) PLS 1176
7101	Tori Mends-Cole MW 6:30pm - 7:45pm	Seats (Total: 19) SKN 0104
7201	Julie Gowin MW 6:30pm - 7:45pm	Seats (Total: 19) PLS 1180
7301	Lingyan Ma TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1176
7401	Christopher Swift TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1180
7501	Misti Yang TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1184
7601	Naette Lee TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1164
7701	Morgan Hess TuTh 8:00am - 9:15am	Seats (Total: 19) WDS 1131
7801	Rebecca Alt TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1162
7901	Joshua Wood TuTh 8:00am - 9:15am	Seats (Total: 19) WDS 0104
8101	Lingyan Ma TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1176
8201	Christopher Swift TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1180
8301	Misti Yang TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1184
8401	Naette Lee TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1164

8501	Morgan Hess TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 1131
8601	Karen Lamb TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1162
8701	Alyson Farzad TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 0104
8801	Tyler Page TuTh 9:30am - 10:45am	Seats (Total: 19) ARC 1123
8901	Karen Lamb TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1176
9001	Marlene Cohen TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1180
9101	Joshua Wood TuTh 11:00am - 12:15pm	Seats (Total: 19) ARC 1123
9201	Tyler Page TuTh 11:00am - 12:15pm	Seats (Total: 19) SKN 1115
9301	Sabeen Sheikh TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1164
9401	Alyson Farzad TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 0118
9501	Samuel Rubin TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 1103
9601	Karen Lamb TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1176
9701	Marlene Cohen TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1180
9801	Joshua Wood TuTh 12:30pm - 1:45pm	Seats (Total: 19) ARC 1123

9901	Allison Chatham TuTh 12:30pm - 1:45pm	Seats (Total: 19) WDS 0104
9902	Sabeen Sheikh TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1164
9903	Alyson Farzad TuTh 12:30pm - 1:45pm *This section of COMM 107 explores the fundamentals of oral communication within the context of community engagement. Students will apply course content to community-based projects.*	Seats (Total: 19) JMZ 0118
9904	Randall Fowler TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 1103
9905	Jade Olson TuTh 2:00pm - 3:15pm	Seats (Total: 19) SKN 0104
9906	Samuel Rubin TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
9907	Sifan Xu TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1184
9908	L Gordon TuTh 2:00pm - 3:15pm	Seats (Total: 19) WDS 1131
9909	Ning Xie, Mollie Kaufer TuTh 2:00pm - 3:15pm	Seats (Total: 19) ARC 1125
9910	Randall Fowler TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 3203
9911	Karen Lamb TuTh 3:30pm - 4:45pm	Seats (Total: 19) SKN 0104
9912	Samuel Rubin TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1180
9913	Christina Saninocencio TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1184

9914	L Gordon TuTh 3:30pm - 4:45pm	Seats (Total: 19) WDS 1131
9915	Ning Xie, Cassondra Pope TuTh 3:30pm - 4:45pm	Seats (Total: 19) ARC 1125
9916	Samantha Stanley TuTh 3:30pm - 4:45pm	Seats (Total: 19) JMZ 3203
9917	David Payne TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1164
9918	Samuel Rubin TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1180
9919	Tori Mends-Cole TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1184
9922	Paula Nadler TuTh 5:00pm - 6:15pm	Seats (Total: 19) KEY 0103
9923	L Gordon TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1164
9924	Samuel Rubin TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1180
9925	Tori Mends-Cole TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1184
9926	William Howell TuTh 6:30pm - 7:45pm	Seats (Total: 19) KEY 0102
FC01	Cassondra Pope MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 3203
FC02	Marlene Cohen TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) SQH 1117

FC03	Sue Sherburne TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) SKN 1112
FC04	Gerry Strumpf MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) ASY 3203
FC05	Paula Nadler MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1131

COMM200 **Critical Thinking and Speaking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

Attendance on the first day of classes is mandatory.

0101	Meridith Styer TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1162
0201	Annie Nichols TuTh 8:00am - 9:15am	Seats (Total: 19) SKN 0104
0301	Meridith Styer TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1146
0401	Annie Nichols TuTh 9:30am - 10:45am	Seats (Total: 19) SKN 0104
0501	Annie Nichols TuTh 3:30pm - 4:45pm	Seats (Total: 19) SKN 1115

COMM201 **Introduction to Public Relations**

Credits: 3 | Grading Method: Regular

Basic concepts and principles of public relations. Roles in organizations and society; history; skills and practices of public relations; theories and models of effective and ethical public relations.

Restricted to COMM majors (1506A) only.

0101	Erich Sommerfeldt MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 PLS 1180	Discussion
0102	Erich Sommerfeldt MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 WDS 1130	Discussion
0103	Erich Sommerfeldt MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 PLS 1180	Discussion
0104	Erich Sommerfeldt MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 WDS 1130	Discussion
0105	Erich Sommerfeldt MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 PLS 1180	Discussion
0106	Erich Sommerfeldt MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 WDS 1130	Discussion

COMM230 **Argumentation and Debate**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.

Attendance on the first day of class is mandatory.

0101	Nora Murphy TuTh 8:00am - 9:15am	Seats (Total: 24) LEF 1171	
0201	Nora Murphy TuTh 9:30am - 10:45am	Seats (Total: 24) LEF 1171	

0301	Jade Olson TuTh 11:00am - 12:15pm	Seats (Total: 24) PLS 1184	
0401	Morgan Hess TuTh 12:30pm - 1:45pm	Seats (Total: 24) PLS 1184	

COMM250 **Introduction to Communication Inquiry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

0101	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 28) SKN 0200 ONLINE EDU 3233	Discussion
0102	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 28) SKN 0200 ONLINE EDU 3233	Discussion
0103	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 28) SKN 0200 ONLINE EDU 3233	Discussion
0105	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 28) SKN 0200 ONLINE SQH 1101	Discussion
0106	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 28) SKN 0200 ONLINE SQH 1101	Discussion
0109	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 28) SKN 0200 ONLINE SQH 1107	Discussion

COMM269B **Special Topics in Study Abroad II; Oral Communication for Leaders in the Business World**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269C **Special Topics in Study Abroad II; Communication and Campaign Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269M **Special Topics in Study Abroad II; Media Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269P **Special Topics in Study Abroad II; Principles of Film and Media Production**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269R **Special Topics in Study Abroad II; Introduction to Public Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 20)
0601	Leah Waks Contact instructor or department for details.	Seats (Total: 20)

COMM298R **Selected Topics in Communication; Introduction to Public Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM324 **Communication and Gender**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU, DVUP

The creation of images of male and female, and masculine and feminine, through communication, the differences in male and female communication behaviors and styles, and the implications of those images and styles for male-female transactions.

0101	Kimberley Hannah-Prater MW 3:30pm - 4:45pm	Seats (Total: 35) CHM 0119
0201	Kimberley Hannah-Prater MW 5:00pm - 6:15pm	Seats (Total: 35) CHM 0119
0301	Janna Soeder TuTh 8:00am - 9:15am	Seats (Total: 35) SKN 1115
0401	Janna Soeder TuTh 9:30am - 10:45am	Seats (Total: 35) SQH 1103

COMM330 **Argumentation and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

0101	Devin Scott MW 2:00pm - 3:15pm	Seats (Total: 35) PLS 1117	
0201	William Howell TuTh 8:00pm - 9:15pm	Seats (Total: 35) KEY 0102	

COMM331 **News Writing and Reporting for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM201; and must have completed or be concurrently enrolled in JOUR181. Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Or permission of ARHU-Communication department. Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.

Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

0101	Raphael Mazzone M 11:00am - 12:50pm W 11:00am - 12:50pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

COMM332 **News Editing for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in COMM331; or students who have taken courses with comparable content may contact the department. And permission of ARHU-Communication department. Restriction: Must be in Communication program. Credit only granted for: JOUR202, COMM232, or COMM332. Formerly: COMM232.

Copy editing, graphic principles and processes, news and information technologies for public relations.

0101	Pamela Grant Tu 8:00am - 9:15am Th 8:00am - 9:15am	Seats (Total: 18) EGR 3140 EGR 3140	 Lab
0201	Pamela Grant Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

0301	Erich Sommerfeldt Tu 5:00pm - 6:15pm Th 5:00pm - 6:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab
0401	Pamela Grant TuTh 3:30pm - 4:45pm	Seats (Total: 18) EGR 3140	

COMM351 **Public Relations Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM332. Restriction: Must be in Communication program. Credit only granted for: COMM351 or JOUR331. Formerly: JOUR331.

The techniques of public relations, including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.

0101	Luke Capizzo M 1:00pm - 2:15pm W 1:00pm - 2:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab
0201	Susan Simon Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

COMM353 **New Media Writing for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in COMM351. Restriction: Must be in Communication program. Credit only granted for: COMM352 or COMM353. Formerly: COMM352.

Students learn the uses and influence of new media on public relations practice and expand their ability to write using new and traditional media platforms and tools

0101	Tyler Page Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab
0201	Sifan Xu Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

COMM360 **The Rhetoric of Black America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

0101	Meridith Styer TuTh 5:00pm - 6:15pm	Seats (Total: 35) SKN 1115

COMM370 **Mediated Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Junior standing or higher.

Analysis and critique of structure, performance, content, effects, and future of mediated communication.

0101	Soyoung Bae MW 3:30pm - 4:45pm	Seats (Total: 45) TYD 1108
SG91	Soyoung Bae TuTh 2:00pm - 3:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 4215

COMM371 **Communication and Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program. Credit only granted for: COMM371 or COMM398V. Formerly: COMM398V.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

This course is restricted to COMM majors at Shady Grove.

SG91	Robert Coleman MW 9:00am - 10:45am *Restricted to COMM majors at Shady Grove.*	Seats (Total: 25) BLD3 3216

COMM372 **Communication, Meaning, and Digital Media**

Credits: 3 Grading Method: Regular

Restriction: Must be in Communication program.

An exploration of visual communication and meaning creation. A theoretical and practical application of communication concepts and techniques in the production of visual content.

Formerly COMM498J. Credit granted for COMM498J or COMM372.

SG91	Adam Nixon	Seats (Total: 25)
	M 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM373 **Communication and Digital Visual Narrative**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

Examination of the traditional style of visual communication, its practices and theoretical underpinnings juxtaposed against contemporary digital media aesthetics and techniques. Utilizing a variety of communication skills and new media tools, students will plan, write, shoot, edit, and upload digital visual narratives.

Formerly COMM498K. Credit granted for COMM498K or COMM373.

SG91	Adam Nixon	Seats (Total: 25)
	Tu 4:00pm - 6:30pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM375 **Documentary Theory and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

A historical and theoretical introduction to documentary films and videos. Students will explore the power of documentaries to address socially significant issues.

SG91	Adam Nixon	Seats (Total: 25)
	W 4:15pm - 6:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM382 **Essentials of Intercultural Communication**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVCC

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

0101	Nick Joyce MW 3:30pm - 4:45pm	Seats (Total: 35) JMP 1202
0201	Anita Seate TuTh 3:30pm - 4:45pm	Seats (Total: 35) SQH 1103
0401	David Payne MW 5:00pm - 6:15pm	Seats (Total: 35) JMP 1202
SG91	David Payne TuTh 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 4211

COMM385 **Influence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Credit only granted for: COMM385 or COMM498I (Spring 2014). Formerly: COMM498I (Spring 2014).

Explores contemporary theories of influence and their implications for communication practice. Topics include power and influence, logical theory, rhetorical theory, persuasion theory, framing theory, social influence theory, and propagation of influence in mediated social networks.

0101	Nick Joyce MW 5:00pm - 6:15pm	Seats (Total: 60) EGR 1108

COMM386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 60)
SG91	Elizabeth Malliakos Contact instructor or department for details. *Contact department or instructor for details. Restricted to Shady Grove COMM Majors.*	Seats (Total: 20)

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM398 **Selected Topics in Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398C **Selected Topics in Communication; Peer Consulting in Oral Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Prerequisite: permission of department. Provides training in the principles and practice of peer consulting in the context of an oral communication center. Students will apply and integrate the knowledge and skills acquired in COMM107 (or COMM200) with new training to help their peers become outstanding listeners and speakers. They will also engage in a group research project designed to extend knowledge in peer consulting best practices.

0101	Jade Olson Tu 5:00pm - 7:30pm Contact instructor or department for details.	Seats (Total: 15) SKN 2117

COMM398E **Selected Topics in Communication; Health Communication**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

0101	Xiaoli Nan	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	KEY 0103

COMM398F **Selected Topics in Communication; Web Graphics, Coding, and Site Design**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398I **Selected Topics in Communication; Communicating for Results**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Judith Tenney	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 3240
	Restricted to COMM majors at Shady Grove.	

COMM398K **Selected Topics in Communication; Communication and Strategic Message Design**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman	Seats (Total: 25)
	MW 11:00am - 12:15pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM398M **Selected Topics in Communication; Communicating through Humor**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	David Payne	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 4211
	Restricted to COMM majors at Shady Grove.	

COMM398N **Selected Topics in Communication; Communication and Digital Imaging**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman	Seats (Total: 25)
	MW 2:00pm - 3:45pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM398O **Selected Topics in Communication; Digital Media and Democracy**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

0101	Jon Hoffman	Seats (Total: 45)
	TuTh 9:30am - 10:45am	TWS 1100
SG91	Jon Hoffman	Seats (Total: 40)
	MW 12:30pm - 1:45pm	BLD2 3022
	Restricted to COMM majors at Shady Grove.	

COMM398R **Selected Topics in Communication; Interactive Online Media**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398X **Selected Topics in Communication; Social Networking**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Restricted to COMM majors at Shady Grove.

SG91	Debsamita Patra	Seats (Total: 25)
	TuTh 9:30am - 10:45am	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM398Z **Selected Topics in Communication; Media Ethics and Cultural Citizenship**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM399 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0601	Leah Waks Contact instructor or department for details.	Seats (Total: 10)	
1001	Andrew Wolvin Contact instructor or department for details.	Seats (Total: 5)	
3801	Dale Hample Contact instructor or department for details.	Seats (Total: 10)	
4001	Xiaoli Nan Contact instructor or department for details.	Seats (Total: 10)	

COMM400 **Research Methods in Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250; and must have an introductory course in statistics. Restriction: Must be in Communication program.

Philosophy of scientific method; role of theory; research ethics; empirical research methods (measurement, sampling, design, analysis).

Attendance on the first day of class is mandatory. For majors only.

0101	Anita Seate TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 SQH 1119		Discussion
0102	Anita Seate TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 SQH 1119		Discussion
0103	Anita Seate TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 SQH 1119		Discussion
0104	Anita Seate TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 SQH 1121		Discussion

0105	Anita Seate TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 SQH 1121	Discussion
0106	Anita Seate TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 SQH 1121	Discussion

COMM401 **Interpreting Strategic Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Principles and approaches for practical analysis of discourse designed to shape audience opinion.

Attendance on the first day of classes is mandatory.

0101	Christopher Swift TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 PLS 1162	Discussion
0102	Christopher Swift TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 PLS 1162	Discussion
0103	Christopher Swift TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) ESJ 2204 PLS 1162	Discussion
0104	Christopher Swift TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 PLS 1164	Discussion
0105	Christopher Swift TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 PLS 1164	Discussion
0106	Christopher Swift TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) ESJ 2204 PLS 1164	Discussion

0201	Meridith Styer TuTh 2:00pm - 3:15pm	Seats (Total: 35) JMP 1202	
SG91	Jon Hoffman MW 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD2 3022	

COMM402 **Communication Theory and Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Philosophical and conceptual analysis of communication theories.

Attendance on the first day of classes is mandatory.

0101	Soyoung Bae MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 PLS 1117	Discussion
0102	Soyoung Bae MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 PLS 1117	Discussion
0103	Soyoung Bae MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 PLS 1117	Discussion
0104	Soyoung Bae MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 SYM 0209	Discussion
0105	Soyoung Bae MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 SYM 0209	Discussion
0106	Soyoung Bae MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 SYM 0209	Discussion

SG91	Soyoung Bae	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 4215
	Restricted to COMM majors at Shady Grove.	

COMM422 **Communication Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Communication policies, plans, channels, and practices in the managemen of the communication function in organizations.

0101	Andrew Wolvin	Seats (Total: 35)
	TuTh 8:00am - 9:15am	KEY 0103

COMM424 **Communication in Complex Organizations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Structure and function of communication within organizations: organizational climate and culture, information flow, networks and role relationships.

0101	Raphael Mazzone	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1105

COMM425 **Negotiation and Conflict Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Role of communication in shaping negotiation and conflict processes and outcomes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	HBK 0302H

COMM426 **Conflict Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Recommended: COMM425; and COMM250; and COMM402.

Role of communication in managing conflict processes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein TuTh 9:30am - 10:45am	Seats (Total: 45) HBK 0302H

COMM427 **Crisis Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: COMM398C or COMM427. Formerly: COMM398C.

Explores theories and research related to communication before, during, and after a crisis. Students examine the fundamentals of organizational communication, crisis management, and strategic and crisis communication planning before examining case studies of a number of real-life crises: organizational crises, natural disasters, accidents, terrorism incidents, health crises, and major crises of credibility.

0101	Brooke Liu TuTh 3:30pm - 4:45pm	Seats (Total: 35) SQH 1107
SG91	Judith Tenney TuTh 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) BLD3 3240

COMM435 **Theories of Interpersonal Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM400; or permission of ARHU-Communication department.

Major theoretical approaches and research trends in the study of interpersonal communication.

0101	Dale Hample TuTh 3:30pm - 4:45pm	Seats (Total: 35) ASY 3207

COMM450 **Ancient and Medieval Rhetorical Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program. Credit only granted for: COMM450 or COMM650.

A survey of rhetorical theory in the ancient and medieval periods. Emphasis is placed on the theoretical problems that gave rise to its development within both periods. Authors include Isocrates, Plato, Aristotle, Cicero, Quintilian, Hermogenes, Martianus Capella, Aurelius Augustine, Alberic of Monte Cassino, Geoffrey of Vinsauf and Robert of Basevorn.

0101	Damien Pfister	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	ARC 1101

COMM458D **Seminar in Political Communication; Deception in Public Discourse**

Credits: 3 Grading Method: Regular

The examination of special topics for and theories of political communication.

This course examines the central role of deception in democratic political discourse. Since antiquity, politicians have not only lied to their constituents about themselves, but also popularized a deceptive idea of democracy. The history of this process will be surveyed and recent examples from U. S. public discourse will be studied.

0101	Christopher Swift	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	TYD 1132

COMM460 **Public Life in American Communities, 1634-1900**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Ways that Americans have used their voice to create public life. Focus is on the diverse social communities that have characterized American life and the place and characteristics of oral discourse in each.

0101	Carly Woods	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	HBK 0105

COMM468A **Seminar in Mediated Communication; Arab Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The examination of special topics related to the study of mediated communication.

0101	Sahar Khamis	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	TYD 1132

COMM468T **Seminar in Mediated Communication; Technology and Digital Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The examination of special topics related to the study of mediated communication.

This seminar will explore themes related to the transition from a mass media ecology to a networked media ecology, with special attention to the role of technological change. Readings will span early 20th century theories of mass communication to contemporary theories of digitally networked communication. The course will be of special interest to students interested in the history of media technology, digital culture, and emerging technologies.

0101	Damien Pfister	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	BPS 1238

COMM469G **The Discourse of Social Movements; Rhetoric of Gender Activism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Study of key social movements that have influenced American social and political life. In alternate years the Civil Rights Movement and the Rhetoric of Women's Suffrage and Abolitionism. Consideration of how groups excluded from or marginalized in American political life affect social change.

0101	Carly Woods	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	KEY 0103

COMM469O **The Discourse of Social Movements; Rhetoric of Oppressed Peoples**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Study of key social movements that have influenced American social and political life. In alternate years the Civil Rights Movement and the Rhetoric of Women's Suffrage and Abolitionism. Consideration of how groups excluded from or marginalized in American political life affect social change.

0101	Michelle Yang	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	SQH 1107

COMM470 **Listening**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The principles of listening behavior.

This course is restricted to COMM majors only.

0101	Andrew Wolvin TuTh 11:00am - 12:15pm	Seats (Total: 35) SKN 0104

COMM475 **Persuasion**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Bases of persuasion, with emphasis on recent experimental developments in persuasion.

This course is restricted to COMM majors only.

0101	Susan Hubbard MW 12:30pm - 1:45pm	Seats (Total: 45) TYD 1132

COMM478 **Communication Colloquium**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Current trends and issues in the field of communication, stressing recent research methods. Recommended for senior and graduate student majors and minors in communication.

0101	Michelle Yang F 12:00pm - 1:30pm	Seats (Total: 50) SKN 0200

COMM483 **Senior Seminar in Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM351 and COMM400. Credit only granted for: COMM483 or JOUR483. Formerly: JOUR483.

Integration of theory, techniques and research methods into the planning and execution of public relations campaigns for specific organizations. Analysis of research on the case studies of public relations.

0101	Susan Simon TuTh 9:30am - 10:45am	Seats (Total: 20) WDS 1127
0201	Susan Simon MW 9:30am - 10:45am	Seats (Total: 20) EGR 3140

COMM488I **Communication Portfolio Project; The Art of Interviewing**

Credits: 1 Grading Method: Regular

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

0101	Christina Saninocencio	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

COMM489 **Topical Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM498B **Seminar; Bateman Competition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Luke Capizzo	Seats (Total: 16)
	TuTh 9:30am - 10:45am Contact instructor or department for details.	JMZ 3203

COMM498C **Seminar; Public Relations Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restriction: COMM majors only (1506A).

0101	Elizabeth Toth	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	ASY 3203

COMM498G **Seminar; Event Planning and Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Pamela Grant	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	SKN 0104

COMM498I **Seminar; New Media and Health**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Kang Namkoong	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	KEY 0103

COMM498L **Seminar; Introduction to Screenwriting for Television and Film**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Adam Nixon	Seats (Total: 25)
	Th 4:00pm - 6:30pm	BLD3 3216
	Restricted to COMM majors at Shady Grove.	

COMM498O **Seminar; Public Relations Research, Data and Insights**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Prerequisite: COMM350 or COMM201/COMM298P. A practicum with work in teams to extract data to solve a public relations client problem. Students receive training and skills in secondary, quantitative, an qualitative techniques to analyze data to help a client set goals and measurable objectives. The course features the latest communication technology tools and unpacks them for students.

0101	Elizabeth Toth	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	SKN 0104

COMM498R **Seminar; Risk Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Ji Youn Kim	Seats (Total: 35)
	MWF 1:00pm - 1:50pm	SQH 1105

COMM498V **Seminar; Visual Rhetoric**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restricted to Departmental Honors students.

0101	Michelle Yang	Seats (Total: 15)
	TuTh 5:00pm - 6:15pm	WDS 1127

COMM602 **Communication Theory**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Communication (Master's); Communication (Doctoral)).

Fundamental concepts, approaches, and problems in communication theory.

0101	Dale Hample	Seats (Total: 15)
	Th 6:30pm - 9:30pm	SKN 2127

COMM609 **Fundamentals of Interpreting**

Credits: 2-6

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

PG01	Peng Wang	Seats (Total: 30)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM609A **Fundamentals of Interpreting; Methodology**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XG01	Peng Wang	Seats (Total: 16)
	W 1:30pm - 3:30pm	SKN 3118
	Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	

COMM609D **Fundamentals of Interpreting; Chinese into English/English into Chinese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGC1	Handan Bao	Seats (Total: 16)
	Tu 1:00pm - 2:50pm	SKN 3118
	Chinese into English. Biweekly. Start Date 08-29. Restricted to students in GSIT Program.	
XGE1	Handan Bao	Seats (Total: 16)
	Tu 3:00pm - 4:50pm	SKN 3118
	English into Chinese. Biweekly. Start Date 08-29. Restricted to students in GSIT Program.	

COMM609E **Fundamentals of Interpreting; Sight Translation: Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGC1	Irina Knizhnik W 6:00pm - 6:50pm	Seats (Total: 16) HBK 0123
	Chinese into English. Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	
XGE1	Yu Tang W 7:00pm - 7:50pm	Seats (Total: 16) PLS 1168
	English into Chinese. Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	

COMM609I **Fundamentals of Interpreting; Korean into English/English into Korean**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Yong-Ha Lee M 12:00pm - 1:50pm	Seats (Total: 16) SKN 2127
	English into Korean. Biweekly, starting on 08/28. Restricted to students in GSIT Program.	
XGK1	Yong-Ha Lee M 10:00am - 11:50am	Seats (Total: 16) SKN 2127
	Korean into English. Biweekly, starting on 08/28. Restricted to students in GSIT Program.	

COMM609J **Fundamentals of Interpreting; Sight Translation: Korean into English/English into Korean**

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Lee Boese Sa 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 16) SKN 2127 ONLINE	Discussion
	Korean into English. Biweekly (10 am to 1 pm for the first few sessions). Start Date 09-02. Restricted to students in GSIT Program.		
XGK1	Lee Boese Sa 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 16) SKN 2127 ONLINE	Discussion
	Korean into English. Biweekly (10 am to 1 pm for the first few sessions). Start Date 09-02. Restricted to students in GSIT Program.		

COMM609M Fundamentals of Interpreting; Spanish into English/English into Spanish

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Esperanza Pombo Lopez-Barron W 4:00pm - 5:50pm	Seats (Total: 16) SKN 3117	
	English into Spanish. Biweely. Start Date 08-30. Restricted to students in GSIT Program.		
XGS1	Rosalinda Meza-Steel Contact instructor or department for details.	Seats (Total: 16)	
	Spanish into English. Start Date TBA. Restricted to students in GSIT Program.		

COMM609N Fundamentals of Interpreting; Sight Translation: Spanish into English/English into Spanish

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Eva Vilarrubi Sa 11:00am - 11:50am	Seats (Total: 16) SKN 2127
	English into Spanish. Biweekly. Start Date 09-02. Restricted to students in GSIT Program.	
XGS1	Rosalinda Meza-Steel Sa 2:30pm - 4:30pm	Seats (Total: 16) SKN 3118
	Spanish into English. Biweekly, starting 09-09. Restricted to students in GSIT Program.	

COMM609O Fundamentals of Interpreting; English into Russian/Russian into English

Credits: 1

Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Sergei Chernov Sa 9:00am - 9:50am	Seats (Total: 16) SKN 3117
	English into Russian. Weekly. Start Date 09-16. Restricted to students in the GSIT program.	
XGR1	Nikolai Sorokin Tu 11:30am - 1:30pm	Seats (Total: 16) SKN 2127
	Russian into English. Biweekly. Start Date 08-29. Restricted to students in GSIT program.	

COMM609P Fundamentals of Interpreting; English into Russian/Russian into English

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGE1	Sergei Chernov Sa 10:00am - 10:30am Contact instructor or department for details. *English into Russian. Weekly. Start Date 09-16. Restricted to students in the GSIT program.*	Seats (Total: 16) SKN 3117
XGR1	Nikolai Sorokin Tu 1:30pm - 2:30pm Contact instructor or department for details. *Russian into English. Biweekly. Start Date 08-29. Restricted to students in GSIT program.*	Seats (Total: 16) SKN 2127

COMM609Q **Fundamentals of Interpreting; Interpretation - French into Spanish/Spanish into French**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGF1	Rosalinda Meza-Steel Sa 2:30pm - 4:30pm *French into Spanish. Biweekly, starting 09-02. Restricted to students in GSIT Program.*	Seats (Total: 16) SKN 3118

COMM609R **Fundamentals of Interpreting; Sight Translation - French into Spanish/Spanish into French**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGF1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 4:30pm - 5:30pm	SKN 3118
	French into Spanish. Biweekly. Start Date 09-02. Restricted to students in GSIT Program.	

COMM609T **Fundamentals of Interpreting; German into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGG1	Instructor: TBA	Seats (Total: 16)
	Class time/details on ELMs	ONLINE
	German into Spanish. Restricted to students in GSIT program.	

COMM609U **Fundamentals of Interpreting; Sight Translation - German into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGG1	Instructor: TBA	Seats (Total: 16)
	Class time/details on ELMs	ONLINE
	German into Spanish. Restricted to students in GSIT program.	

COMM609V **Fundamentals of Interpreting; Italian into Spanish/Spanish into Italian**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGI1	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Th 4:00pm - 5:50pm	SKN 3118
	Italian into Spanish. Biweekly. Start date 08-31. Restricted to students in GSIT program.	

COMM609W **Fundamentals of Interpreting; Sight Translation - Italian into Spanish/Spanish into Italian**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

XGI1	Instructor: TBA	Seats (Total: 16)
	Contact instructor or department for details.	
	Italian into Spanish. Restricted to students in GSIT program.	

COMM610 **Introduction to Translation and Interpreting Studies**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Students must complete an admissions test for first year courses; and permission of ARHU-Communication department.

Provides an overview of the interdisciplinary fields of Translation and Interpreting Studies and establishes relationships between scholarly study and professional practice. Examines how theories and concepts inform practice, guide to a higher level of competence, and address issues of interlingual, intercultural mediation in authentic, real-world settings both past and present. serves as a foundation course for reflective practice and portfolio work through action research methodology and process

PG01	David Sawyer	Seats (Total: 30)
	M 5:30pm - 8:30pm	SKN 3118
	Restricted to students in GSIT Program.	

COMM618 **Professional Communication: Rhetoric & Style**

Credits: 3 Grading Method: Regular

Writing instruction in English for professional communicators with a focus on rhetoric, style, and grammar. Designed to teach English writing skills focused on message creation and organization, sentence structure, and language use, typologies of rhetorical genres, registers, and style, research skills, summary-writing skills, to editing skills, and vocabulary building in English writing.

PCF1	Shawn Parry-Giles, Mollie Kaufer	Seats (Total: 20)
	W 12:00pm - 3:00pm	SKN 3115
	Restricted to students in the Enhanced English Fluency Program.	

COMM629 **Introduction to Simultaneous Interpretation**

Credits: 1 Grading Method: Regular, Audit

Builds upon the overview of the simultaneous mode in Fundamentals of Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth. Challenges of simultaneous interpreting, including split attention, ear-voice span, and voice and microphone technique are addressed. Participants become familiar with the booth and exercises required to build simultaneous skills. Role and use of portable equipment in professional settings are discussed. Recommended as preparation for the M.A. entrance examination.

PG01	Gerard Francois	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM629F **Introduction to Simultaneous Interpretation; French into English**

Credits: 1 Grading Method: Regular, Audit

Builds upon the overview of the simultaneous mode in Fundamentals of Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth. Challenges of simultaneous interpreting, including split attention, ear-voice span, and voice and microphone technique are addressed. Participants become familiar with the booth and exercises required to build simultaneous skills. Role and use of portable equipment in professional settings are discussed. Recommended as preparation for the M.A. entrance examination.

XGE1	Gerard Francois	Seats (Total: 16)
	M 3:30pm - 4:30pm	SKN 3118
	French into English. Biweekly. Start Date 08-28. Restricted to students in GSIT Program.	

COMM631 **Seminar in Public Relations Publics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: COMM631 or JOUR631. Formerly: JOUR631.

Analysis of public relations programs aimed at organizational publics. Media, issue-related, community, employee, governmental, consumer, financial, and student/educator publics. Theories of the nature of publics, communication behavior of publics, and effects of public relations programs aimed at different publics.

0101	Erich Sommerfeldt	Seats (Total: 15)
	M 3:30pm - 6:30pm	SKN 2127

COMM638 **Professional Communication: Rhetoric & Voice**

Credits: 3 Grading Method: Regular

A skills-based course in speaking instruction in English for professional communicators with a focus on public speaking, voice, diction, and pronunciation. Focuses on developing public speaking, voice, diction, and pronunciation skills. Designed to teach message creation and organization, sentence structure, and language use, vocal qualities designed to enhance proper pronunciation, breathing, and articulation skills, register variation, listening skills, English vocabulary, audience adaptation skills with attention to cultural distinctions, presentational skills with visual aids, and interpretive skills.

PCF1	Mollie Kaufer, Andrew Wolvin	Seats (Total: 20)
	Th 12:00pm - 2:50pm	SKN 3115
	Restricted to students in the Enhanced English Fluency Program.	

COMM639 **Fundamentals of Translation**

Credits: 2-6 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

PG01	Peng Wang, John Samaha Jr	Seats (Total: 30)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program. Meets every other week beginning Sept. 1st.	

COMM639A **Fundamentals of Translation; Methodology**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XG01	Peng Wang, John Samaha Jr	Seats (Total: 16)
	Th 10:00am - 11:50am	SKN 3118
	Biweekly. Start Date 08-31. Restricted to students in GSIT Program.	

COMM639D **Fundamentals of Translation; Translation: Chinese into English/English into Chinese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGC1	Irina Knizhnik	Seats (Total: 16)
	W 4:00pm - 5:50pm	HBK 0123
	Chinese into English. Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	

XGE1	Min Eu	Seats (Total: 16)
	Tu 10:30am - 12:30pm	ARC 1125
	English into Chinese. Biweekly. Start Date 09-12. Restricted to students in GSIT program.	

COMM639E **Fundamentals of Translation; Sight Translation: Chinese into ENglish/English into Chinese**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGC1	Irina Knizhnik	Seats (Total: 16)
	W 6:00pm - 6:50pm	HBK 0123
	Chinese into English. Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	
XGE1	Yu Tang	Seats (Total: 16)
	W 7:00pm - 7:50pm	PLS 1168
	English into Chinese. Biweekly. Start Date 08-30. Restricted to students in GSIT Program.	

COMM639F **Fundamentals of Translation; Methodology: Translation: French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGE1	Brigitte Andreassier	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program. English into French.	

XGF1	Ine van Dam	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program. French into English.	

COMM639G **Fundamentals of Translation; Sight Translation: French into English/English into French**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGE1	Brigitte Andreassier	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program. English into French. Weekly starting September 22, via Skype.	
XGF1	Anna Mason	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program. French into English. Every other week TBA, via Skype.	

COMM639M **Fundamentals of Translation; Translation: Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGS1	Charles Becker	Seats (Total: 16)
	Tu 6:00pm - 7:50pm	SKN 3118
	Spanish into English. Biweekly. Start Date 08-29. Restricted to students in GSIT Program.	

COMM639N **Fundamentals of Translation; Sight Translation: Spanish into English/English into Spanish**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGS1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 2:30pm - 4:30pm	SKN 3118
	Spanish into English. Biweekly, starting 09/09. Restricted to students in GSIT Program.	

COMM639O **Fundamentals of Translation; Portuguese into English/English into Portuguese**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGE1	Mirna Soares Andrade	Seats (Total: 16)
	Contact instructor or department for details.	
	English into Portuguese. Biweekly, Start Date 09/06. Restricted to students in GSIT Program.	
XGP1	Robert Feron	Seats (Total: 16)
	W 7:00pm - 8:30pm	SKN 3115
	Portuguese into English. Restricted to students in GSIT Program.	

COMM639P **Fundamentals of Translation; Sight Translation: Portuguese into English/English into Portuguese**

Credits: 1

Grading Method: Regular,
Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

XGE1	Mirna Soares Andrade	Seats (Total: 16)
	Contact instructor or department for details.	
	English into Portuguese. Biweekly, Start Date 09/06. Restricted to students in GSIT Program.	
XGP1	Robert Feron	Seats (Total: 16)
	W 7:00pm - 8:30pm	SKN 3115
	Portuguese into English. Restricted to students in GSIT Program.	

COMM641 **Introduction to Computer-Assisted Translation**

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Admissions test for first year courses; and COMM639; and permission of ARHU-Communication department.

Introduces the use of computer-assisted translation tools to support large-scale translation projects and streamline translation processes. Focuses on industry software products that utilize translation memory and terminology management systems. Discusses the role of tools in the entire translation process from pre- to post-editing.

PG01	Peng Wang, Mollie Kaufer	Seats (Total: 30)
	Meets September 16, 2017 - December 8, 2017	
	F 9:00am - 11:50am	SKN 3115
	Meets 09-01; 10-27; 11-24; 12-08. Restricted to students in GSIT program.	

COMM659 **Translation for Language-Specific Markets**

Credits: 1-3 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

PG01	Peng Wang	Seats (Total: 30)
	Contact instructor or department for details.	
	Restricted to students in the GSIT program.	

COMM659B **Translation for Language-Specific Markets; Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular,
Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

XGC1	Irina Knizhnik	Seats (Total: 16)
	W 4:00pm - 5:50pm	HBK 0123
	Restricted to students in GSIT Program. Chinese into English. Biweekly. Start Date 08-30.	
XGE1	Min Eu	Seats (Total: 16)
	Tu 10:30am - 12:30pm	ARC 1125
	English into Chinese. Biweekly. Start Date 09-12. Restricted to students in GSIT.	

COMM659E **Translation for Language-Specific Markets; Germain into English/English into German**

Credits: 1

Grading Method: Regular,
Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

XGE1	Karen Riechert W 6:00pm - 7:50pm	Seats (Total: 16) SKN 3118
	Restricted to students in GSIT Program. English into German. Weekly. Start Date 08-30.	
XGG1	Karen Riechert W 6:00pm - 7:50pm	Seats (Total: 16) SKN 3118
	Restricted to students in GSIT Program. German into English. Weekly. Start Date 08-30.	

COMM659G **Translation for Language-Specific Markets; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

XGE1	Velandia-Pardo Carol-Gizell W 9:00am - 10:50am	Seats (Total: 16) ONLINE
	Restricted to students in GSIT Program. English into Spanish. Biweekly, Start Date 09-20.	
XGS1	Joseph Mazza Tu 7:00pm - 8:50pm	Seats (Total: 16) PLS 1176
	Restricted to students in GSIT Program. Spanish into English. Biweekly. Start Date 08-29.	

COMM669 **Professional Practice Forum in Translation: Practicum**

Credits: 1 Grading Method: Regular, Audit

Provides opportunities to complete real-world translation projects on campus and in the public service, legal, business, and political communities as translators, project managers and translators/reviewers working on group projects. Collaboration with participants in the interpreting practicum is also sought to prepare multilingual texts for practicum events and familiarize participants with conference translation. Complements Translation for Specific Markets, and practicum projects are included in course and career reflective practice portfolios. Requires independent study plan agreed with course instructor.

PG01	John Samaha Jr	Seats (Total: 30)
	Tu 9:00am - 10:50am	SKN 3117
	Meets 09/12 & 11/14. Restricted to students in GSIT program	

COMM679 **Professional Practice Forum in Translation: Workplace Processes and Procedures; Workplace Processing and Procedures Translation**

Credits: 1 Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings requiring translation services. Prepares for translation in real-world settings by discussing procedures across sectors and institutions, enabling informed career plans and choices. Discusses ethics, professional conduct and business practices. Reinforces identity as a professional translator, develops specializations, and pursues professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

PG01	Stephen Lank	Seats (Total: 30)
	W 8:30am - 10:30am	SKN 3117
	Biweekly. Start Date 08-30. Restricted to students in GSIT program.	

COMM686 **Teaching Communication**

Credits: 1 Grading Method: Regular, Audit

Formerly: SPCH686.

Principles of effective teaching--content and process--in the college communication classroom.

0101	Lindsey Anderson	Seats (Total: 30)
	W 12:00pm - 1:00pm	SKN 2127

COMM688 **Communication Field Experience**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Applications of communication principles and research in professional communication settings.

Contact department for information to register for this course.

COMM698 **Special Problems in Communication**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

COMM700 **Introduction to Graduate Study in Communication**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Communication (Doctoral) program. Formerly: SPCH700.

Basic skills in communication research.

0101	Trevor Parry-Giles Tu 3:30pm - 6:30pm	Seats (Total: 30) SKN 2127

COMM710 **Translation and Localization Project Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admissions test for second year courses; and permission of ARHU-Communication department.

Introduces basic principles of project management in the translation industry based upon globalization and localization processes for software, websites, and other translation-driven products. Focuses on information technology and workflow in large-scale multilingual projects. Examines planning, execution, and evaluation processes grounded in best practices and standards of the translation and localization industry.

PG01	Andrew Lawless, Isabelle Delabre, Peng Wang F 1:00pm - 3:50pm *Restricted to students in GSIT Program.*	Seats (Total: 30) SKN 3118

COMM711 **Historical/Critical Methods in Communication Research**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: COMM700; or permission of instructor. Formerly: SPCH711.

Methods for historical and critical research in communication. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.

0101	Kristjana Maddux M 7:00pm - 10:00pm	Seats (Total: 15) SKN 2127

COMM714 **Introduction to Qualitative Methods in Communication Research**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Methods for field research in communication including interiewing, ethnographic and participant intervention, focus groups, and content analysis. Formulation of significant research questions, systematic collection of field data, formulating substantial claims from the research, organizing and writing research from disciplinary outlets.

0101	Linda Aldoory W 6:30pm - 9:30pm	Seats (Total: 15) SKN 2127

COMM719 **Advanced Consecutive Interpretation**

Credits: 2-3

Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

PG01	Esperanza Pombo Lopez-Barron, Peng Wang Contact instructor or department for details. *Restricted to students in GSIT Program.*	Seats (Total: 30)

COMM719A **Advanced Consecutive Interpretation; Arabic into English/English into Arabic**

Credits: 1

Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

XGA1	Ihab Ali	Seats (Total: 16)	
	Sa 2:50pm - 4:50pm Class time/details on ELMs	SKN 3118 ONLINE	Discussion
	Arabic into English. Biweekly, starting 09/09 & online classes. Restricted to students in GSIT Program.		
XGE1	Ihab Ali	Seats (Total: 16)	
	Sa 1:00pm - 2:50pm	SKN 3118	
	English into Arabic. Biweekly, starting 09/09 & online classes. Restricted to students in GSIT Program.		

COMM719B **Advanced Consecutive Interpretation; Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular,
Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

XGC1	Handan Bao	Seats (Total: 16)	
	Tu 1:00pm - 2:50pm	SKN 3118	
	Restricted to students in GSIT Program. Chinese into English. Biweekly. Start Date 08-29.		
XGE1	Handan Bao	Seats (Total: 16)	
	Tu 3:00pm - 4:50pm	SKN 3118	
	Restricted to students in GSIT Program. English into Chinese. Biweekly. Start Date 08-29.		

COMM719C **Advanced Consecutive Interpretation; French into English/English into French**

Credits: 1

Grading Method: Regular,
Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

XGF1	Gerard Francois	Seats (Total: 16)
	M 11:30am - 3:30pm	SKN 3117
	Restricted to students in GSIT Program. French into English. Biweekly. Start Date 08-28.	

COMM719F **Advanced Consecutive Interpretation; Spanish into English/English into Spanish**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

XGE1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 10:30am - 12:30pm	SKN 3117
	English into Spanish. Biweekly, Start Date 09/09. Restricted to students in GSIT Program.	
XGS1	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 12:30pm - 2:30pm	SKN 3117
	Spanish into English. Biweekly, Start Date 09/09. Restricted to students in GSIT Program.	

COMM719G **Advanced Consecutive Interpretation; Korean into English/English into Korean**

Credits: 1 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

XGE1	Yong-Ha Lee	Seats (Total: 16)
	M 10:00am - 11:50am	SKN 2127
	English into Korean. Biweekly, Start Date 08/28. Restricted to students in GSIT Program.	

XGK1	Yong-Ha Lee	Seats (Total: 16)
	M 12:00pm - 1:50pm	SKN 2127
	Korean into English. Biweekly, Start Date 08/28. Restricted to students in GSIT Program.	

COMM729 **Simultaneous Interpretation**

Credits: 2-3 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM729A **Simultaneous Interpretation; Arabic into English/English into Arabic**

Credits: 1 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

XGA1	Ihab Ali	Seats (Total: 16)
	Sa 9:00am - 10:50am	SKN 3118
	Restricted to students in GSIT Program. Arabic into English. Biweekly, Start Date 09/09.	
XGE1	Ihab Ali	Seats (Total: 16)
	Sa 10:50am - 12:50pm	SKN 3118
	Restricted to students in GSIT Program. English into Arabic. Biweekly, Start Date 09/09	

COMM729B **Simultaneous Interpretation; Chinese into English/English into Chinese**

Credits: 1

Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

XGC1	Handan Bao Tu 9:00am - 10:50am	Seats (Total: 16) SKN 3118
	Restricted to students in GSIT Program. Chinese into English. Biweekly. Start Date 08-29.	
XGE1	Handan Bao Tu 11:00am - 12:50pm	Seats (Total: 16) SKN 3118
	Restricted to students in GSIT Program. English into Chinese. Biweekly. Start Date 08-29.	

COMM729C **Simultaneous Interpretation; French into English/English into French**

Credits: 1

Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

XGE1	Gerard Francois M 9:00am - 10:50am	Seats (Total: 16) SKN 3118
	English into French. Biweekly, Start Date 08-28. Restricted to students in GSIT Program.	
XGF1	Rosalinda Meza-Steel Sa 12:30pm - 2:30pm	Seats (Total: 16) SKN 3118
	French into English. Biweekly, Start Date 09/02. Restricted to students in GSIT Program.	

COMM729F **Simultaneous Interpretation; Spanish into English/English into Spanish**

Credits: 1

Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

XGE1	Instructor: TBA F 4:00pm - 5:50pm *Restricted to students in GSIT program. English into Spanish. Biweekly, Start Date 09/08.*	Seats (Total: 16) SKN 3118
XGS1	Rosalinda Meza-Steel Sa 10:30am - 12:30pm *Spanish into English. Biweekly, Start Date 09/02. Restricted to students in GSIT Program.*	Seats (Total: 16) SKN 3118

COMM729K **Simultaneous Interpretation; Interpreting: Korean into English/English into Korean**

Credits: 1

Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

XGE1	Yong-Ha Lee M 12:00pm - 1:50pm *English into Korean. Biweekly, Start Date 09/04. Restricted to students in GSIT Program.*	Seats (Total: 16) SKN 3118
XGK1	Yong-Ha Lee M 10:00am - 11:50am *Korean into English. Biweekly, Start Date 09/04. Restricted to students in GSIT Program.*	Seats (Total: 16) SKN 3118

COMM748 **The Rhetoric of the Presidency**

Credits: 3

Grading Method: Regular, Audit

The study of the historical and contemporary rhetoric of the presidency in appropriate historical and political contexts. Scholarship related to public address studies and theories of the presidency will be featured.

PCF1	Shawn Parry-Giles	Seats (Total: 20)
	W 9:00am - 11:50am	SKN 2130
	Restricted to students in the Enhanced English Fluency Program.	

COMM748P **The Rhetoric of the Presidency**

Credits: 3

Grading Method: Regular, Audit

The study of the historical and contemporary rhetoric of the presidency in appropriate historical and political contexts. Scholarship related to public address studies and theories of the presidency will be featured.

0101	Shawn Parry-Giles	Seats (Total: 15)
	Th 3:30pm - 6:30pm	SKN 2127

COMM759 **Professional Practice Forum in Interpreting: Practicum**

Credits: 1

Grading Method: Regular, Audit

Provides opportunities to interpret consecutively and simultaneously in real-world settings on campus and in the public service, legal, business, and political communities. Develops team leader skills by organizing and convening an event or series of events (conference, debate, or negotiation), selecting topics and delegates, and preparing speeches and arguments to deliver and interpret. Collaboration with participants in M.A. translation courses is sought. Requires independent study plan agreed with course instructor.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 30)
	Tu 9:00am - 10:50am	SKN 3117
	Meets 09-12 & 11-14. Restricted to students in GSIT program.	

COMM769 **Professional Practice Forum in Interpreting: Workplace Processes and Procedures; Workplace Processes and Procedures Interpreting**

Credits: 1

Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings where interpreting services are commonplace. Enables students to make informed career plans and choices. Empowers participants by helping to establish and reinforce identity as a professional interpreter, develop specializations, and pursue professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

PG01	Miriam Stanicic	Seats (Total: 30)
	Sa 8:30am - 10:30am	SKN 3118
	Restricted to students in GSIT program. Meets 09-16, 09-30, 10-14, 10-28, 11-11, 12-02.	

COMM789 **Seminar: Special Topics in Intercultural Communication; Advanced Intercultural Communications/Negotiations**

Credits: 3 Grading Method: Regular, Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

PG01	Monika Roske	Seats (Total: 30)
	Th 12:30pm - 3:30pm	SKN 3118
	Restricted to students in GSIT Program. Weekly. Start Date 08-31.	

COMM798 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798A **Independent Study; Public Speaking**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Andrew Wolvin	Seats (Total: 16)
	Th 1:00pm - 2:50pm	SKN 2127
	Restricted to students in GSIT Program.	

XG01	Cassondra Pope Th 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 16) SKN 2127
	Restricted to students in GSIT program. Public Speaking: Diction Weekly. Plus 1 make up session on TBA date.	

COMM798B **Independent Study; Text Analysis and Intensive Writing**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Mollie Kaufer, Shawn Parry-Giles M 2:00pm - 2:50pm	Seats (Total: 16) SKN 2127
	Restricted to students in GSIT program. Taught in English. Every other week starting August 30.	
PG02	Elisabetta Ullmann Th 10:00am - 11:50am	Seats (Total: 16) SKN 3117
	Restricted to students in GSIT Program. Taught in Chinese. Meets biweekly starting 08-31.	

COMM798F **Independent Study; English Fluency Enhancement**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Mollie Kaufer, Shawn Parry-Giles Contact instructor or department for details.	Seats (Total: 16)
	Meets by appointment. Restricted to students in the GSIT program.	

COMM798I **Independent Study; Consecutive Interpreting Skills**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Esperanza Pombo Lopez-Barron Contact instructor or department for details.	Seats (Total: 16)
	Restricted to students in GSIT Program.	

COMM798J **Independent Study; Translation Skills**

Credits: 1-2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM798K **Independent Study; Culture and Website Localization**

Credits: 2 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Peng Wang	Seats (Total: 16)
	Th 3:40pm - 5:40pm Class time/details on ELMs	SKN 3115 ONLINE
	Meets biweekly and has online classes. Restricted to students in GSIT Program.	

COMM799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

COMM888 **Doctoral Practicum in Communication**

(Perm req)

Credits: 3-9 Grading Method: Regular, Audit

Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

COMM889 **Doctoral Tutorial in Communication**

(Perm req)

Credits: 3-9 Grading Method: Regular, Audit

Individual research in communication.

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CONS Sustainable Development & Conservation Biology Fall 2017

CONS609I **Special Topics in Conservation Biology; Internship**

Credits: 1-3 Grading Method: Sat-Fail

Lectures, experimental courses and other special instructions in variou subjects in conservation biology.

0101	Karen Lips	Seats (Total: 20)
	Contact instructor or department for details.	

CONS798 **Research Papers in Sustainable Development and Conservation Biology**

Credits: 1-4 Grading Method: Regular, Sat-Fail

Work on the required scholarly paper.

Contact department for information to register for this course.

CPBE College Park Scholars-Business, Society, and Economy Fall 2017

CPBE100 **College Park Scholars: Business, Society & the Economy First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Introductory colloquium: Examination of issues related to business, society and the economy.

0101	Claudia Donnelly	Seats (Total: 43)	
	W 5:00pm - 5:50pm	TWS 1100	
	W 6:00pm - 6:50pm	TWS 1100	Lab

0201	Claudia Donnelly	Seats (Total: 43)	
	W 5:00pm - 5:50pm	TWS 1100	
	W 6:00pm - 6:50pm	TWS 1100	Lab

CPBE225 **Enterprise Communications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Prerequisite: CPBE100. Restriction: Must be enrolled in College Park Scholars' Business, Society and the Economy (CPBE) program. Formerly: CPSP220.

Examines basic interpersonal communication processes within written and oral channels, with practical applications for the business environment.

0101	Ira Koretsky	Seats (Total: 37)	
	MW 11:00am - 12:15pm	SQH 1117	
	W 5:00pm - 6:50pm	SQH 1120	Lab
0102	Ira Koretsky	Seats (Total: 36)	
	MW 2:00pm - 3:15pm	MMH 1304	
	W 5:00pm - 6:50pm	SQH 1120	Lab

CPET College Park Scholars-Environment, Technology & Economy Fall 2017

CPET100 **College Park Scholars: Environment, Technology & Economy First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Introductory colloquium: Examination of issues related to the convergence of the environment, technology and the economy.

Class will meet in lecture OR discussion each week. For the first class meeting, both sections meet in LECTURE. Students will then be given schedule for semester.

0101	Caron Gala, Lauren Gilmartin, Lucas Hays, Timothy Knight	Seats (Total: 45)	
	Tu 5:10pm - 6:30pm	CCC 1205	
	Tu 6:30pm - 7:20pm	CCC 1205	Discussion

0102	Caron Gala, Lauren Gilmartin, Lucas Hays, Timothy Knight	Seats (Total: 45)	
	Tu 5:10pm - 6:30pm	CCC 1205	
	Tu 7:30pm - 8:20pm	CCC 1205	Discussion

CPET200 **College Park Scholars: Environment, Technology & Economy Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPET101. Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Advanced colloquium: Continued examination of issues related to sustainable development.

0101	Caron Gala, Lauren Gilmartin, Lucas Hays, Timothy Knight	Seats (Total: 40)	
	M 5:10pm - 6:30pm	CCC 1205	
	M 6:30pm - 7:20pm	CCC 1205	Discussion
	Discussion meets on Mondays from 5pm-550pm in CCC 1205.		
0102	Caron Gala, Lauren Gilmartin, Lucas Hays, Timothy Knight	Seats (Total: 30)	
	M 5:10pm - 6:30pm	CCC 1205	
	M 7:30pm - 8:20pm	CCC 1205	Discussion
	Discussion meets on Mondays from 6pm-650pm in CCC 1205.		

CPGH College Park Scholars-Global Public Health Fall 2017

CPGH100 **College Park Scholars: Global Public Health First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Introductory colloquium: Examination of factors that determine the health status of populations around the world.

0101	Muhiuddin Haider, Kaley Beins, Abigail Bickford	Seats (Total: 100)	
	W 3:00pm - 4:30pm	CCC 1100	

CPGH200 **College Park Scholars: Global Public Health Second-Year Colloquium**

Credits: 1 Grading Method: Regular General Education: DSSP

Prerequisite: CPGH101. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Building on knowledge and skills gained from the first-year colloquia, students will develop public health interventions that address a public health issue of a particular community.

0101	Abigail Bickford, Muhiuddin Haider, Kaley Beins Tu 2:00pm - 3:15pm	Seats (Total: 95) CCC 1100

CPJT College Park Scholars-Justice and Legal Thought Fall 2017

CPJT100 **College Park Scholars: Justice & Legal Thought: First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Justice & Legal Thought (CPJT) program.

Students will gain an experiential understanding of law and justice by investigating concepts and frameworks of justice and apply them to real-world experience.

0101	Robert Koulish, Erica Smith W 5:00pm - 6:15pm	Seats (Total: 90) CCC 1205

CPJT200 **Justice and legal Thought Second Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Justice and Legal Thought (CPJT) program. Additional information: When combined with the first year CPJT colloquia, students will learn how to research issues discussed and debated throughout year one.

Advanced colloquium for second year students related to research skill development

0101	Erica Smith Th 2:00pm - 3:15pm	Seats (Total: 90) CCC 1100

CPMS College Park Scholars-Media, Self and Society Fall 2017

CPMS100 **College Park Scholars: Media, Self & Society First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Introductory colloquium: Examination of issues related to the media.

0101	Kalyani Chadha, Carolina Siqueira Paranhos Velloso, Nandikoor Bhat	Seats (Total: 90)
	Th 3:30pm - 4:50pm	CCC 1100

CPMS225 **Analyzing Media Practice through Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Prerequisite: CPMS100. Restriction: Must be in the Scholars Media, Self & Society Program. Formerly: CPSP222.

Media analysis investigating patterns of ownership, the working of media organizations, patterns of coverage and the nature of audiences.

0101	Kalyani Chadha, Carolina Siqueira Paranhos Velloso, Nandikoor Bhat	Seats (Total: 90)
	TuTh 12:30pm - 1:45pm	CCC 1205

CPMS230 **College Park Scholars: Media, Self & Society - Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Supervised internship project in an area related to media, self and society.

0101	Kalyani Chadha	Seats (Total: 10)
	Contact instructor or department for details.	

CPPL College Park Scholars-Public Leadership Fall 2017

CPPL100 **College Park Scholars: Public Leadership First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Introductory colloquium: Examination of issues related to public leadership.

0101	Ricco Hall, Susannah Washburn Tu 5:00pm - 6:15pm	Seats (Total: 30) CCC 1111
0201	Ricco Hall, Susannah Washburn Tu 6:30pm - 7:45pm	Seats (Total: 35) CCC 1111
0301	Ricco Hall, Susannah Washburn W 5:00pm - 6:15pm	Seats (Total: 35) CCC 1111

CPPL200 **College Park Scholars: Public Leadership - Applied Leadership Capstone I**

Credits: 1 Grading Method: Regular

Prerequisite: CPPL101. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Planning and initiation of team, community-based-learning projects.

0101	Delisha Thompson, Susannah Washburn, Anastasia Brown Tu 3:30pm - 4:45pm	Seats (Total: 30) CCC 1111
0201	Delisha Thompson, Susannah Washburn, Anastasia Brown W 2:00pm - 3:15pm	Seats (Total: 30) CCC 1111
0301	Delisha Thompson, Susannah Washburn, Anastasia Brown W 3:30pm - 4:45pm	Seats (Total: 35) CCC 1205

CPSA College Park Scholars-Arts Fall 2017

CPSA100 **College Park Scholars: Arts First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.

Introductory colloquium: Aesthetic, intellectual and personal examination of the arts.

0101	Kenna Hernly, Harold Burgess, Patricia Akinbola, Montserrat Cubillos Guzman M 6:00pm - 7:15pm	Seats (Total: 90) CCC 1100

CPSA149 **College Park Scholars: Arts Service-Learning Outreach**

Credits: 2 Grading Method: Regular

Service-Learning outreach to Prince George's County schools and non-profit agencies.

0101	Harold Burgess Th 5:00pm - 7:00pm	Seats (Total: 10) CCC 1115

CPSA200 **College Park Scholars: Arts Second-Year Colloquium I**

Credits: 1 Grading Method: Regular

Prerequisite: CPSA101. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 240, 250 or 260, students will earn General Education Scholarship-in-Practice credit.

Advanced colloquium I: Examination of the arts in society; and preparation for "Scholarship-in-Practice" project.

0101	Harold Burgess, Patricia Akinbola, Montserrat Cubillos Guzman Tu 6:00pm - 7:15pm	Seats (Total: 80) CCC 1100

CPSD College Park Scholars-Science, Discovery & the Universe Fall 2017

CPSD100 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium A**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of issues related to science, discovery and the universe.

0101	Jennifer McIntosh, Alan Peel Th 3:30pm - 4:30pm	Seats (Total: 45) CCC 1111

CPSD101 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium B**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of the intersection of astronomy and culture; and the roles of science, exploration and communication in the process of discovery.

0101	Jennifer McIntosh, Alan Peel	Seats (Total: 45)
	Th 3:30pm - 4:30pm	CCC 1205

CPSD200 **College Park Scholars: Science, Discovery & the Universe Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSD100 and CPSD101. Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program.

Advanced colloquium: Continued examination of issues related to science, discovery and the universe.

0101	Jennifer McIntosh, Alan Peel	Seats (Total: 85)
	Th 5:30pm - 6:30pm	CCC 1205

CPSF College Park Scholars-Life Sciences Fall 2017

CPSF100 **College Park Scholars: Life Sciences First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Life Sciences (CPSF) program.

Introductory colloquium: Examination of issues related to the life sciences.

0101	Reid Compton	Seats (Total: 100)
	W 3:30pm - 5:30pm	PLS 1140

CPSG College Park Scholars-Science and Global Change Fall 2017

CPSG100 **College Park Scholars: Science & Global Change First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Introductory colloquium: Examination of issues related to science and global change.

0101	John Merck, Thomas Holtz Tu 3:30pm - 4:50pm	Seats (Total: 92) CCC 1100	

CPSG200 **College Park Scholars: Science & Global Change Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSG101. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Advanced colloquium: Continued examination of issues related to science and global change.

0101	Thomas Holtz, John Merck M 3:30pm - 4:50pm	Seats (Total: 90) CCC 1100	

CPSN College Park Scholars-International Studies Fall 2017

CPSN100 **College Park Scholars: International Studies First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Introductory colloquium: Examination of issues related to international studies.

0101	James Glass, Allison Patch, Catherine Aiken, Michael Coates, Patrick O'Brien M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 25) ASY 2203 ASY 3211	 Discussion
0102	James Glass, Allison Patch, Catherine Aiken, Michael Coates, Patrick O'Brien M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 22) ASY 2203 ASY 3217	 Discussion

0103	James Glass, Patrick O'Brien, Michael Coates, Catherine Aiken, Allison Patch M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 25) ASY 2203 TWS 1313	Discussion
0104	James Glass, Allison Patch, Patrick O'Brien, Michael Coates, Catherine Aiken M 4:45pm - 6:45pm M 6:45pm - 8:00pm	Seats (Total: 22) ASY 2203 ASY 3203	Discussion

CPSN230 **College Park Scholars: International Studies - Internship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised internship project in an area related to international studies.

0101	Allison Patch Contact instructor or department for details.	Seats (Total: 10)

CPSP College Park Scholars Program Fall 2017

CPSP218L **College Park Scholars Second-Year Colloquium I; Life Sciences**

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium for specific College Park Scholars Program.

Restricted to College Park Scholars - Life Sciences. First lecture of the semester for all sections (including those listed as TBA) will meet on Tuesday, September 2nd, from 4pm-5pm. Location TBA.

0101	Tammatha O'Brien, Marcia Shofner Tu 4:00pm - 6:00pm	Seats (Total: 25) PLS 1119
0201	Reid Compton Th 4:00pm - 6:00pm	Seats (Total: 25) PLS 1146
0301	Patricia Shields Tu 4:00pm - 6:00pm	Seats (Total: 25) PLS 1146
0401	Reid Compton Th 4:00pm - 6:00pm	Seats (Total: 25) PLS 1119

CPSP239A **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Harold Burgess	Seats (Total: 10)
	Contact instructor or department for details.	

CPSP239L **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP239P **Practicum: Internship; Individual Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

CPSP239S **Practicum: Internship; CATCH Clinical Internship**

Credits: 1-3 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP249L **Practicum: Service-Learning; Life Sciences**

Credits: 2 Grading Method: Regular

Supervised Service-Learning project in area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars - Life Sciences.

0101	Reid Compton	Seats (Total: 20)
	Contact instructor or department for details.	

CPSP259I **Practicum: Research**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised research project in interest area related to the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP259J **Practicum: Research; Media, Self, and Society**

Credits: 1-2 Grading Method: Regular

Supervised research project in interest area related to the students' College Park Scholars program.

Restricted to students in College Park Scholars Media, Self, and Society Program

Contact department for information to register for this course.

CPSP259S **Practicum: Research; CATCH Research Assistantship**

Credits: 1-3 Grading Method: Regular

Supervised research project in interest area related to the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269B **Practicum: Peer Teaching**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269E **Practicum: Peer Teaching**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269F **Practicum: Peer Teaching**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP269N **Practicum: Peer Teaching**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP318B **College Park Scholars Special Topics; Business, Society and Economics**

(Perm req)

Credits: 1 Grading Method: Regular

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP318N **College Park Scholars Special Topics**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP339 **Advanced Practicum: Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

Contact department for information to register for this course.

CPSP349T **Advanced Practicum: Service Learning; STS INFRASTRUCTURE AND SOCIETY S-L PROJECT**

Credits: 3 Grading Method: Regular General Education: DSSP

Advanced supervised Service-Learning project.

0101	David Tomblin	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	CCC 1105

CPSP359B **Advanced Practicum: Research; Using Company Culture to Gain a Competitive Advantage**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Advanced supervised internship experience.

Contact department for information to register for this course.

CPSP359N **Advanced Practicum: Research**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Advanced supervised internship experience.

0101	Catherine Aiken	Seats (Total: 5)
	Contact instructor or department for details.	

CPSP369A **Advanced Practicum: Peer Teaching; Arts**

Credits: 1-3 | Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369D **Advanced Practicum: Peer Teaching; Science, Discovery, and the Universe**

Credits: 1-3 | Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369E **Advanced Practicum: Peer Teaching**

Credits: 2 | Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369G **Advanced Practicum: Peer Teaching**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369L **Advanced Practicum: Peer Teaching; Life Sciences**

Credits: 1-3 | Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369N **Advanced Practicum: Peer Teaching; International Studies**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369P **Advanced Practicum: Peer Teaching; Public Leadership**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369T **Advanced Practicum: Peer Teaching; Science, Technology, and Society**

(Perm req)

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP388B **Advanced Special Topics in College Park Scholars; Business, Soc, Economics: Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

CPSP388E **Advanced Special Topics in College Park Scholars; Advanced Special Topics in College Park Scholars**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Independent study to allow continuation of Connection Project from CPET101.

Contact department for information to register for this course.

CPSS College Park Scholars-Science, Technology and Society — Fall 2017

CPSS100 **College Park Scholars: Science, Technology & Society First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Technology & Society (CPSS) program.

Introductory colloquium: Examination of issues related to science, technology and society.

0101	David Tomblin M 3:15pm - 5:00pm	Seats (Total: 90) CCC 1205

CPSS225 **College Park Scholars Capstone: Science, Technology, and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Prerequisite: CPSS100. Restriction: Must be in the College Park Scholars Science, Technology & Society (CPSS) program. Formerly: CPSP227.

Exploration and understanding of ways science and technology shape and are shaped by society.

0101	Thomas Zeller TuTh 9:30am - 10:45am	Seats (Total: 20) CCC 1105
0201	Nicole Mogul TuTh 12:30pm - 1:45pm	Seats (Total: 20) CCC 1105

CPSS240 **College Park Scholars: Science, Technology & Society - Service-Learning Practicum**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Prerequisite: CPSS101; or permission of instructor. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program; or permission of instructor.

Supervised Service-Learning practicum in issues related to science, technology and society.

Most of the class times will be spent at area Prince George's schools with partnering robotics teams. Consult the class requirements and locations provided in the syllabus at the beginning of the class.

0101	Matthew Aruch TuTh 2:00pm - 3:15pm	Seats (Total: 10) CBD 1140

0201	Matthew Aruch	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	CBD 1140	

DANC Dance Fall 2017

DANC109 **Improvisation I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

An introduction to the process of spontaneous movement discovery involving solo and group movement experiences.

Prerequisite: by permission of department. Students must pay a $25.00 lab fee.

5501	Sara Pearson	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PAC 1912	Lab

DANC128 **Fundamentals of Ballet**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to ballet technique and terminology for the beginning student.

Students must pay a $25 lab fee.

5501	Chunhui Xing	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	PKT 2102

DANC138C **World Dance Forms; Chinese Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25 lab fee.

5501	Chunhui Xing	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	PKT 2102

DANC138P **World Dance Forms; Hip Hop**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25 course fee.

5501	Mariama Law MW 2:00pm - 3:15pm	Seats (Total: 25) PAC 1908	
5502	Mariama Law TuTh 11:00am - 12:15pm	Seats (Total: 25) PAC 1610	
5503	Carlos Funn MW 3:30pm - 4:45pm	Seats (Total: 25) PAC 1912	

DANC138W **World Dance Forms; World Dance Forms: West African Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25.00 lab fee.

5501	Mustapha Braimah TuTh 2:00pm - 3:15pm	Seats (Total: 24) PAC 1912	Lab
5502	Mustapha Braimah TuTh 12:30pm - 1:45pm	Seats (Total: 25) PAC 1912	Lab

DANC148 **Fundamentals of Modern Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to modern dance with emphasis on the development of fundamental movement skills.

Students must pay a $25.00 lab fee.

5501	Latefia Bradley TuTh 9:30am - 10:45am	Seats (Total: 20) PAC 1912	Lab
5502	Ronya Anderson MW 2:00pm - 3:15pm	Seats (Total: 30) PKT 2102	Lab

5503	Stacey Carlson TuTh 11:00am - 12:15pm	Seats (Total: 30) PAC 1908	Lab

DANC179 **Movement Integration**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Conditioning and re-patterning techniques for achieving integrated movement.

Students must pay a $25.00 lab fee.

5501	Adriane Fang TuTh 2:00pm - 3:15pm	Seats (Total: 20) PAC 1611	Lab

DANC199 **Practicum in Choreography, Production and Performance I**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Choreography, production, and performance of student works, both on and off campus.

Contact department for information to register for this course.

DANC200 **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

0101	Ronya Anderson MWF 8:00am - 8:50am	Seats (Total: 25) PAC 1809	
0201	Christine Hands TuTh 12:30pm - 1:45pm	Seats (Total: 10) TWS 1320	
0301	Stacey Carlson TuTh 3:30pm - 4:45pm	Seats (Total: 25) TWS 1320	
FC01	Lisa Traiger MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3221	

DANC200S **Introduction to Dance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

Restricted to College Park Scholars - Arts.

0201	Christine Hands TuTh 12:30pm - 1:45pm	Seats (Total: 15) TWS 1320

DANC207 **The Creative Process**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: DANC109. Restriction: Permission of ARHU-Dance department.

Explorations in movement, music, words, objects, and environments through improvisation and choreographic problem solving.

Students must pay a $25.00 lab fee.

5501	Carlos Funn MWF 11:00am - 12:20pm	Seats (Total: 15) PAC 1908

DANC209 **Dance Composition**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Exploration of the structural elements of dance composition.

Prerequisite: DANC207 and permission of department. Students must pay a $25.00 lab fee.

5501	Carlos Funn MWF 11:00am - 12:20pm	Seats (Total: 15) PAC 1908	Lab

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DANC218 **Foundations of Technique I**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Development of heightened body awareness, breath support, dynamic alignment, and spatial awareness. Focus on rhythmic clarity and musicality.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Alvin Mayes	Seats (Total: 17)	
	MWF 9:00am - 10:50am	PAC 1912	Lab

DANC219 **Foundations of Technique II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC218 with an added focus o momentum, the use of counter-tension, stability/mobility, suspension, and dynamic range.

Prerequisite: DANC218 and permission of department. Students must pay a $25.00 lab fee.

5501	Alvin Mayes	Seats (Total: 8)	
	MWF 9:00am - 10:50am	PAC 1912	Lab

DANC228 **Ballet I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Christine Hands	Seats (Total: 27)	
	TuTh 9:30am - 10:45am	PAC 1908	Lab

DANC229 **Ballet II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC228.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

5501	Mané Rebelo-Plaut	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	PAC 1908	Lab

DANC299 **Practicum in Choreography, Production and Performance II**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC199.

Contact department for information to register for this course.

DANC304 **Teaching Dance**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Dance department.

Organization and content of the studio dance class. Structuring developmentally appropriate dance experiences for students ages 3-18.

Students must pay a $25.00 lab fee.

5501	Crystal Davis MW 2:00pm - 3:15pm	Seats (Total: 20) PAC 1611	

DANC318 **Foundations of Technique III**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC219 with an added focus on off-verticality, spirals, complex level changes, more complex and extended phrasing, responsiveness to accompaniment, vocalization.

Prerequisite: DANC219 and permission of department. Students must pay a $25.00 lab fee.

5502	Adriane Fang MWF 12:30pm - 2:20pm	Seats (Total: 11) PAC 1912	Lab

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DANC319 **Foundations of Technique IV**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC318 with an added focus on movement subtlety and complexity, and stylistic demands.

Prerequisite: DANC318 and permission of department. Students must pay a $25.00 lab fee.

5501	Adriane Fang MWF 12:30pm - 2:20pm	Seats (Total: 14) PAC 1912	Lab

DANC328 **Ballet III**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Execution of the vocabulary of ballet movement with technical accuracy.

5501	Mané Rebelo-Plaut TuTh 12:30pm - 1:45pm	Seats (Total: 10) PAC 1908

DANC329 **Ballet IV**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC328.

5501	Mané Rebelo-Plaut TuTh 12:30pm - 1:45pm	Seats (Total: 10) PAC 1908

DANC371 **Somatics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: DANC179. Restriction: Permission of ARHU-Dance department.

Current ideas and trends in dance technique, with a focus on the incorporation of dance science and somatics into dance training.

Students must pay a $25.00 lab fee.

5501	Crystal Davis TuTh 11:00am - 12:15pm	Seats (Total: 15) PAC 1611

DANC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

DANC398 **Directed Studies in Dance**

(Perm req)

Credits: 1-6 Grading Method: Regular

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 3)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 3)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 3)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 3)
0601	Carlos Funn Contact instructor or department for details.	Seats (Total: 3)
0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 3)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 3)

DANC398Y **Directed Studies in Dance; Yoga, Improvisation, and Embodied Metaphors: Investigating Philosophy through Movement**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Students must pay a $25 course fee.

5501	Shawn Stone TuTh 3:30pm - 4:45pm	Seats (Total: 25) PKT 2102

DANC399 **Practicum in Choreography, Production and Performance III**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC299.

Prerequisite: DANC299.

Contact department for information to register for this course.

DANC448 **Modern Dance V**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Complex phrases of modern dance movement with emphasis on articulation and expression.

Prerequisite: DANC349 and aududition. Students must pay a $25.00 lab fee.

5501	Patrik Widrig	Seats (Total: 10)	
	MWF 9:00am - 10:50am	PAC 1908	Lab

DANC449 **Modern Dance VI**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC448.

Prerequisite: DANC 448 and permission from the department Students must pay a $25.00 lab fee.

5501	Patrik Widrig	Seats (Total: 5)	
	MWF 9:00am - 10:50am	PAC 1908	Lab

DANC468 **Modern Repertory**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Form, content, music, design and performance of modern dance works.

Students must pay a $25 course fee.

5501	Alvin Mayes	Seats (Total: 12)
	MW 3:30pm - 5:30pm	PAC 1908

DANC488 **Project-Based Learning**

(Perm req)

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

A specific project, is addressed, in dance from the perspectives of the investigator, the creator/choreographer, and the performer. Projects are cross-disciplinary and/or cross-cultural, and may involve both on- and off-campus experiences.

Students must pay a $25.00 lab fee.

5501	Maura Keefe TuTh 2:00pm - 5:00pm	Seats (Total: 15) PAC 1908

DANC499 **Practicum in Choreography, Production and Performance IV**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Advanced workshop in dance presentation, including performing, production and planned field experiences.

Prerequisite: DANC 399.

Contact department for information to register for this course.

DANC600 **Introduction to Graduate Studies in Dance**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Supervised writing of reports and articles on selected dance subjects. Study of library resources and interviewing techniques. Preparation for written documentation of thesis project.

0101	Maura Keefe Tu 9:30am - 12:15pm	Seats (Total: 5) PAC 1924

DANC604 **Dance Pedogogy**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Curriculum writing, lesson planning, class structure, assessment/grading, and practice in dance pedagogy. Includes preparation of syllabi and studio teaching practice. This course counts towards teaching ceritification in the State of Maryland.

Students must pay a $25.00 lab fee.

5501	Crystal Davis	Seats (Total: 5)
	Th 3:30pm - 5:30pm	PAC 1924

DANC608 **Choreography I**

Credits: 3 Grading Method: Regular, Audit

Developing and defining individual choreographic voice and vision in a shared studio setting.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Developing and defining individual choreographic voice and vision in a s ared studio setting.

5501	Sara Pearson	Seats (Total: 5)	
	MWF 11:00am - 12:50pm	PAC 1610	Lab

DANC610 **Workshop in the Direction of Dance Production**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: DANC410; or students who have taken courses with comparable content may contact the department.

A lecture/laboratory course dealing with the relationship of the director to all of the activities involved in the presentation of a dance concert.

5501	Cary Gillett, Paul Jackson	Seats (Total: 5)
	MW 12:30pm - 1:45pm	PAC 1924

DANC647 **Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Experiential studio work that generates common movement vocabulary and innovations of same in a shared, faculty-led exploration of movement for the purpose of generating vocabulary for technique, choreography, and pedagogy.

Students must pay a $25.00 lab fee.

5501	Patrik Widrig	Seats (Total: 5)
	Contact instructor or department for details.	

5502	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)	
5504	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)	
5507	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)	
5508	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)	
5510	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)	

DANC648 **Advanced Modern Dance Technique I**

Credits: 2 Grading Method: Regular, Audit

Professional level training in contemporary dance techniques.

Students must pay a $25.00 lab fee.

5501	Patrik Widrig MWF 9:00am - 10:50am	Seats (Total: 5) PAC 1908	Lab

DANC649 **Advanced Modern Dance Technique II**

Credits: 2 Grading Method: Regular, Audit

A continuation of DANC 648.

Students must pay a $25.00 lab fee.

5501	Patrik Widrig MWF 9:00am - 10:50am	Seats (Total: 5) PAC 1908	Lab

DANC678 **Individual Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Students in consultation with the adviser, propose a specific movement practice and can select the practice from the range of technique offerings in the program. Additional work in documenting and providing evidence of growth towards individual outcomes is required.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

DANC679 **Graduate Dance Performance**

Credits: 1-3 Grading Method: Regular, Audit

An advanced performance course focusing on the restagings from noted scores of the choreographic works of significant artists in the field.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)
0201	Sara Pearson Contact instructor or department for details.	Seats (Total: 5)
0301	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0401	Alvin Mayes Contact instructor or department for details.	Seats (Total: 5)
0501	Paul Jackson Contact instructor or department for details.	Seats (Total: 5)

0601	Maura Keefe Contact instructor or department for details.	Seats (Total: 5)
0701	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

DANC689 **Special Topics in Dance**

Credits: 1-6 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

Contact department for information to register for this course.

DANC689I **Special Topics in Dance; Teaching Internship**

(Perm req)

Credits: 5 Grading Method: Regular, Audit

Special Topics in dance theory, research or creative projects.

CE01	Crystal Davis Contact instructor or department for details.	Seats (Total: 5)

DANC698 **Independent Study in Dance**

Credits: 1-3 Grading Method: Regular, Audit

Directed independent study in theoretical topics.

Contact department for information to register for this course.

DANC719 **Choreographic Project**

Credits: 3 Grading Method: Regular, Audit

Research-based choreographic projects in preparation for the choreographed thesis project.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Research-based choreographic projects in preparation for the choreographed thesis project.

5501	Maura Keefe	Seats (Total: 5)
	MW 3:30pm - 5:30pm	PAC 1611

DANC777 **Internship in Dance**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.

0101	Patrik Widrig	Seats (Total: 5)
	Contact instructor or department for details.	

DANC788 **Master's Tutorial for Choreography; Graduate Tutorial**

Credits: 1-3 Grading Method: Regular, Audit

Supervised production and presentation of a significant choreographic project.

Contact department for information to register for this course.

DANC799 **Master's Thesis Project**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EALL East Asian Languages and Literatures Fall 2017

EALL300 **The Languages of East Asia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

A survey of Chinese, Japanese, and Korean, and the languages of other East Asian nationalities. Provides a basic understanding of the structures of these languages. Topics covered include the characterizing features; the relationships of the languages to each other; the geographical, social, and historical settings. No knowledge of Asian languages is required. Taught in English.

0101	Samuel Ramsey MW 3:30pm - 4:45pm	Seats (Total: 30) JMZ 0103	

ECON Economics Fall 2017

ECON111 **Thinking Like an Economist**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Restriction: Sophomore standing or lower; or permission of BSOS-Economics department.

An introduction to the modes of thought of economics. Use of simple standard tools of economics to analyze important problems that arise frequently in public policy, the news media, and in daily life. An emphasis on how economists predict what choices societies make and how economists analyze whether those are good choices. Practical application of a variety of economic tools leading to a focus on the essential unity underlying these analytical tools, viewing economics as a discipline that applies a core methodology in different ways in different situations.

0101	Peter Murrell TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 LEF 1220	Discussion
0102	Peter Murrell TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 LEF 1221	Discussion
0103	Peter Murrell TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 TYD 2109	Discussion
0104	Peter Murrell TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 TYD 1118	Discussion
0105	Peter Murrell TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 TYD 1108	Discussion
0106	Peter Murrell TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SHM 2102 TYD 1114	Discussion

0201	Peter Murrell TuTh 11:00am - 12:15pm	Seats (Total: 20) TYD 1114	

ECON181 **Incentives for Sustainability: An Economist's Perspective**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

How does society balance the benefits of environmental protection and preservation against the costs? Though some might say that the environment is priceless, economists recognize that every action involves trade-offs. This course investigates sustainability through comparing costs and benefits. From this perspective, other questions arise: How can we design policies that incentivize sustainable choices? Why might usual market functioning fail to achieve sustainability? Do we need to put a price on the environment in order to protect it? How do we measure an economy's "success"? This course explores the answers to these and other related questions from an economist's perspective.

0101	Erin Moody MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 TYD 2111	Discussion
0102	Erin Moody MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 TYD 1114	Discussion
0103	Erin Moody MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 TYD 0102	Discussion
0104	Erin Moody MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 TYD 1108	Discussion
0105	Erin Moody MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 TYD 2111	Discussion
0106	Erin Moody MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SHM 2102 TYD 1108	Discussion

ECON200 **Principles of Microeconomics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

0101	Robert Schwab TuTh 9:30am - 10:45am	Seats (Total: 350) TYD 0130
0201	Robert Schwab TuTh 11:00am - 12:15pm	Seats (Total: 350) TYD 0130
0301	Hossein Abbasi TuTh 12:30pm - 1:45pm	Seats (Total: 350) TYD 0130
FC01	Hossein Abbasi MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 221) SKN 0200

ECON201 Principles of Macroeconomics

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

0101	John Neri MW 2:00pm - 3:15pm	Seats (Total: 440) TYD 0130
0201	John Shea TuTh 2:00pm - 3:15pm	Seats (Total: 250) SKN 0200

ECON230 Applied Economic Statistics

Credits: 3 | Grading Method: Regular

Prerequisite: Must have math eligibility of MATH113 or higher; or 1 course with a minimum grade of C- from (MATH107, MATH110). And minimum grade of C- in ECON200 and ECON201. Recommended: Students should already have basic familiarity with Microsoft Excel or similar spreadsheet software. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introductory course to develop understanding of statistical concepts used in applied economics. Students will acquire skills needed to calculate and interpret statistical concepts, including descriptive statistics, probability, discrete and continuous distributions, sampling, point and interval estimations, hypothesis testing, basic analysis of variance, and simple linear regression models. Students will apply these concepts to data using both handheld calculators and spreadsheets(Excel), and students will be introduced to an econometric software package such as SPSS or SAS or R.

0101	Satyendra Verma MWF 10:00am - 10:50am	Seats (Total: 70) TYD 1102

ECON258C **Special Topics in Study Abroad II; Chinese Economy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

0101	John Neri MWF 12:00pm - 12:50pm	Seats (Total: 200) HJP 0226
0201	Martina Copelman TuTh 9:30am - 10:45am	Seats (Total: 75) TWS 0320
0301	Martina Copelman TuTh 11:00am - 12:15pm	Seats (Total: 75) TWS 0320

ECON306 **Intermediate Microeconomic Theory & Policy**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

0101	Peter Coughlin TuTh 3:30pm - 4:45pm	Seats (Total: 200) KEY 0106
0201	Aaron Finkle MWF 9:00am - 9:50am	Seats (Total: 70) TYD 2109
0301	Satyendra Verma MWF 12:00pm - 12:50pm	Seats (Total: 70) TYD 1102
0401	Satyendra Verma MWF 1:00pm - 1:50pm	Seats (Total: 70) TYD 1102

ECON311 **American Economic History Before the Civil War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Economic concepts are used to analyze various aspects of the founding and early history of the U.S., including the British settlement of the North American colonies, the economics of the American Revolutionary war, the writing of the Constitution, the development of financial markets, policies on public lands and the spread of western agriculture, slavery, banking, and early industrialization.

0101	John Wallis TuTh 9:30am - 10:45am	Seats (Total: 180) SHM 2102

ECON312 **American Economics After the Civil War**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Topics include: the economics of the Civil War, the performance of southern agriculture in the late 19th century, the rise of large corporations, industrialization, the development of financial markets, the creation of the Federal Reserve Board, the economics of the Great Depression and the New Deal, the economic impact of World War II, and the rise of the modern service economy in the late 20th century.

0101	Alka Gandhi MWF 1:00pm - 1:50pm	Seats (Total: 38) TYD 2110

ECON314 Economic History, Development and Policy

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON200 and ECON201.

Study abroad in the economic history, institutional development, and recent economic policy problems of selected areas.

Contact department for information to register for this course.

ECON315 Economic Development of Underdeveloped Areas

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

0101	Bryan Hardy TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 2109
0201	Shanjukta Nath MWF 11:00am - 11:50am	Seats (Total: 38) TYD 2108

SG91	Stefania Scandizzo MW 12:30pm - 1:45pm	Seats (Total: 50) BLD3 3230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON317 **Global Economic Policies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in Economics Bachelor of Arts program.

Analysis of policy options and debates on fostering economic growth and development in a global economy where national boundaries are no longer relevant. Topics covered will include real loanable funds markets in both local and international contexts during normal conditions and during financial crises, the design of trade and industrial policies, and the role of the World Bank, IMF, WTO, and other international agencies as well as regional and bilateral trade agreements. Emerging economies will be emphasized.

0101	Naveen Sarna TuTh 2:00pm - 3:15pm	Seats (Total: 40) TYD 0111
0201	Naveen Sarna TuTh 3:30pm - 4:45pm	Seats (Total: 40) TYD 0111
0301	Naveen Sarna TuTh 5:00pm - 6:15pm	Seats (Total: 40) TYD 0111
0401	Martina Copelman TuTh 2:00pm - 3:15pm	Seats (Total: 40) TYD 2111

ECON321 **Economic Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and minimum grade of C- in MATH141. Recommended: STAT100. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to the use of statistics in economics. Topics include: Probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation.

0101	Andrew Sweeting MWF 11:00am - 11:50am	Seats (Total: 70) TYD 2106	

ECON325 **Intermediate Macroeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

0101	L Stevens MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 30) SHM 2102 JMZ 0122	 Discussion
0102	L Stevens MW 9:00am - 9:50am F 11:00am - 11:50am	Seats (Total: 30) SHM 2102 TYD 2111	 Discussion
0103	L Stevens MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 30) SHM 2102 TYD 0101	 Discussion
0104	L Stevens MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 30) SHM 2102 KEY 0100	 Discussion

ECON326 **Intermediate Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, AREC326, or AREC489M.

Analysis of economic decision-making by individual buyers and sellers, and resulting market outcomes, with emphasis on theoretical rigor. The efficient properties of perfect competition are examined, followed by consideration of market power, externalities, and asymmetric information.

0101	Ginger Jin MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 30) ESJ 1202 KEY 0100	 Discussion
0102	Ginger Jin MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 30) ESJ 1202 KEY 0100	 Discussion
0103	Ginger Jin MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 30) ESJ 1202 TYD 1114	 Discussion
0104	Ginger Jin MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 30) ESJ 1202 TYD 0101	 Discussion

ECON330 **Money and Banking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

0101	John Neri MW 3:30pm - 4:45pm	Seats (Total: 300) SKN 0200

ECON340 **International Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.

Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.

SG91	Stefania Scandizzo MW 9:30am - 10:45am	Seats (Total: 50) BLD3 3230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Stefania Scandizzo MW 11:00am - 12:15pm	Seats (Total: 50) BLD3 3230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON358K **Special Topics in Study Abroad III; Spreadsheets and Data in Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358L **Special Topics in Study Abroad III; Economics of Social Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358M **Special Topics in Study Abroad III; Financial Markets and Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358N **Special Topics in Study Abroad III; History of Economic Thought**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358T **Special Topics in Study Abroad III; Behavior and Incentives in Economics: The Case of Soccer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Click here for information.

Contact department for information to register for this course.

ECON396 **Independent Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Economics department.

First semester of the departmental honors sequence. Students will develop and apply research skills required to carry out original research. By the end of the semester students will have produced a complete draft of an honors thesis resembling a scholarly journal article.

0101	Nuno Limao	Seats (Total: 15)
	TuTh 9:30am - 10:45am	TYD 1108

ECON397 **Honors Thesis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON396. Restriction: Must be a candidate for honors in economics.

General supervision will be provided through assembled meetings with the professor in charge of the course.

Contact department for information to register for this course.

ECON398H **Topics in Economics; British Economy and Financial System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398J **Topics in Economics; The History of Economic Policy in Palestine/Israel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Prerequisite: ECON201. Also offered as ISRL329F. Credit granted for ECON398J or ISRL329F. This course examines economic policy in Palestine/Israel from 1909 (under Ottoman rule) through the British Mandate (1922-48) until 1988, when the current neo-liberal economic policy began. It will examine how the governments and society dealt with issues such as growth versus equality (distributive justice); ideology versus praxis; local original policy versus imported policy; and politics versus academic economics who decides and under what circumstances?

0101	Yair Barak TuTh 9:30am - 10:45am	Seats (Total: 40) JMZ 2206
0201	Cindy Clement Contact instructor or department for details.	Seats (Total: 0)

ECON398L **Topics in Economics; The British Economy and Financial Systems**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON399 **Independent Study in Economics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Permission of BSOS-Economics department. Repeatable to 6 credits if content differs. Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.

Contact department for information to register for this course.

ECON401 **Current Issues in American Economic Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON424, ECON422). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of current economic problems and public policies. Topics could include poverty, income inequality, social insurance, education, environmental sustainability, immigration, and innovation. Other issues may be substituted depending on current events.

0101	Erin Moody TuTh 9:30am - 10:45am	Seats (Total: 25) TYD 1132
0201	Thomas Hegland TuTh 12:30pm - 1:45pm	Seats (Total: 25) TYD 1108

ECON402 **Macroeconomic Models and Forecasting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of the fluctuations in economic activity and the formulation and use of forecasting models of the economy. Illustrations of computer macro models and forecasting problems.

0101	Sadik Aruoba MW 2:00pm - 3:15pm	Seats (Total: 25) TYD 2102

ECON406 **Advanced Microeconomics**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

Expands on the assumptions of rational decision-making used in intermediate microeconomics and develops more complicated, more realistic models which address uncertainty, intertemporal choices, strategic interactions, social preferences and considerations of what is fair.

0101	Erkut Ozbay TuTh 11:00am - 12:15pm	Seats (Total: 70) TYD 0117

ECON412 Economic History and Modern Development

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON325 and ECON326. Restriction: Must be in Economics Bachelor of Science program.

Analysis of major economic, political, and social change in the developed world since 1800. This includes factors contributing to increases in economic performance, changes in the form of government, technological change (including industrialization), and integration and disintegration of the global economy. Emphasis is on institutional changes in how societies organize economic and political activities.

0101	Serguey Braguinsky MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 2110

ECON414 Game Theory

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

0101	Robert Schwab TuTh 2:00pm - 3:15pm	Seats (Total: 90) ESJ 2204
0201	Gustavo Saraiva MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 0101

0301	Yong Paek	Seats (Total: 38)
	TuTh 5:00pm - 6:15pm	TYD 2110

ECON415 **Market Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON414. Restriction: Must be in Economics Bachelor of Science program.

Focuses on recent developments in the design of markets to improve economic performance and to open new economic opportunities. It is divided into three main segments -- auction design, the design of matching mechanisms, and antitrust theory and policy.

0101	Daniel Vincent	Seats (Total: 38)
	TuTh 2:00pm - 3:15pm	TYD 2110

ECON416 **Theory of Economic Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON315 or ECON416.

Economic theory of the developing nations; role of innovation, capital formation, resources, institutions, trade and exchange rates, and governmental policies.

Contact department for information to register for this course.

ECON422 **Econometrics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (STAT400, ECON321). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON422, ECON424, AREC422, or AREC489F.

Emphasizes the interaction between economic problems and the assumption employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

0101	Alka Gandhi	Seats (Total: 38)
	MWF 11:00am - 11:50am	TYD 1132

0201	Alka Gandhi MWF 10:00am - 10:50am	Seats (Total: 38) TYD 1118

ECON423 **Econometrics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program.

Interaction between economic problems and specification and estimation of econometric models. Topics include issues of autocorrelation, heteroscedasticity, functional form, simultaneous equation models, qualitative choice models, and other computational methods.

0101	Guido Kuersteiner TuTh 2:00pm - 3:15pm	Seats (Total: 38) TYD 2102
0201	Maureen Cropper TuTh 11:00am - 12:15pm	Seats (Total: 40) TYD 2102

ECON424 **Applied Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON422 or ECON424.

Provide the knowledge and skills necessary to accomplish and utilize basic applied econometric analysis utilized by many business service providers, government agencies, and nonprofits engaged in policy analysis. Topics include simple and multiple regressions using cross section, time series, and panel data, issues of heteroskedasticity, serial correlation, and multicollinearity, models with binary dependent variable, and program evaluation. Course emphasizes application of knowledge using software packages but still covers essential theoretical background.

0101	Hossein Abbasi TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 2111
0201	Hossein Abbasi TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 2111
0301	Yue Chao TuTh 12:30pm - 1:45pm	Seats (Total: 38) TYD 2111

0401	Fo Aflagah MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 2111

ECON425 **Mathematical Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326). Restriction: Must be in Economics Bachelor of Arts program.

Covers mathematical tools and skills utilized in upper undergraduate and master's level coursework in Economics and Public Policy. Reviews calculus and math of finance and growth. Introduces techniques of optimization, linear algebra, and differential equations and connects them to micro and macro theory and applications. Topics will also include coverage of probability theory to explore how economists model uncertainty, as well as economic applications of integration.

Contact department for information to register for this course.

ECON426 **Economics of Cost-Benefit Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Study of how to use cost benefit analysis and other similar tools of applied microeconomics to conduct policy analyses. Cost-benefit analysis is an empirical method of identifying an optimal choice from a set of policy alternatives, where optimal is defined in terms of economic efficiency. Real world examples are addressed, so that students understand limitations of the methods and also interactions of economic analysis with political and administrative processes.

0101	Ephraim Leibtag Tu 6:00pm - 8:30pm	Seats (Total: 25) TYD 1114
0201	Gentry Johnson MW 3:30pm - 4:45pm	Seats (Total: 25) TYD 2102

ECON435 **Financial Markets and the Macroeconomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed BMGT343. Credit only granted for: BMGT343 or ECON435. Additional information: Finance majors will not receive credit for ECON435.

The different types of financial assets that exist, the markets that they trade in, and the determination of their prices and rates of return are examined. Specific topics that will be covered include the Markowitz portfolio selection model, the capital asset pricing model, the arbitrage pricing theory, the efficient markets hypothesis, the term structure of interest rates, and options. There will be almost no emphasis on issues in corporate finance.

0101	Can Sever MWF 9:00am - 9:50am	Seats (Total: 38) TYD 2108
0201	Richard Stahnke TuTh 12:30pm - 1:45pm	Seats (Total: 38) TYD 0101

ECON442 **Globalization and Capital Markets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON442.

Uses models of open-economy macroeconomics to explain the causes and consequences of international capital flows. Analysis is made of private consumption, investment, the government sector, current accounts, the labor market, and the money and foreign exchange markets in small open economies. This framework is then used to study examples of how speculative attacks on currencies, sudden reversals of capital inflows, and the effects of the lack of credibility of economic policy affect economic development.

0101	Felipe Saffie TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1101

ECON443 **International Trade and Trade Policy in the New Global Economy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON443.

Examines the economics of international economic integration, including the theory of customs unions and free trade areas, the role of GATT and the WTO, changes in individual countries' foreign trade policies during the new era of globalization, the special role of multinational firms in world trade, and recent controversies about the benefits and costs of globalized trade.

0101	Richard Stahnke TuTh 3:30pm - 4:45pm	Seats (Total: 38) TYD 1102
0201	Richard Stahnke TuTh 5:00pm - 6:15pm	Seats (Total: 38) TYD 2111

ECON451 **Public Choice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of collective decision making, economic models of government, program budgeting, and policy implementation; emphasis on models of public choice and institutions which affect decision making.

0101	Peter Coughlin TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1132

ECON454 **Public Finance and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

The role of the the public sector in a market economy constitutes the over-arching topic of this course. Emphasis lies on analyzing government expenditure programs and the microeconomics of tax policy.

0101	Riley Wilson MW 3:30pm - 4:45pm	Seats (Total: 38) TYD 2106
0201	Kenneth Coriale MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 0102

ECON456 **Law and Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Relationship of the exchange process to the system of institutions and rules that society develops to carry out economic transactions. Topics covered include: Property rights; torts, negligence, and liability; contracts and exchanges; criminal control and enforcement; equity and efficiency issues .

0101	Aaron Finkle MWF 12:00pm - 12:50pm	Seats (Total: 38) TYD 2102
0201	Aaron Finkle MWF 1:00pm - 1:50pm	Seats (Total: 38) TYD 1101

ECON458J **Special Topics in Study Abroad IV; Topics in Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON460 **Industrial Organization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

Examines different theoretical models of firm behavior in markets with varying amounts of market power. Relates theory to specific industries and examines how market structure evolves over time.

0101	Andrew Sweeting MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 1118

ECON461 **Economics of Regulation and Anti-trust**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Considers government intervention in economic activity of three types: antitrust policy, regulation of natural monopolies, and health safety regulation. Covers theoretical models, real-world policy applications, and empirical studies relevant to the impact of regulation.

0101	Cindy Clement	Seats (Total: 38)
	MWF 11:00am - 11:50am	TYD 1118

ECON462 **Economics of Entrepreneurship**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON398O or ECON462. Formerly: ECON398O.

Economic theory highlights the role of entrepreneurs in fueling economic growth and accomplishing reallocation of resources in response to changes in preferences, technology, demographics, and resource. This course uses empirical evidence to examine the extent to which these predictions are valid. To more fully understand the motivations and constraints relevant to entrepreneurs, student will write a business plan as if s/he were starting a new business.

0101	Ryan Decker	Seats (Total: 20)
	M 6:00pm - 8:30pm	TYD 2111

ECON471 **Labor Markets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and minimum grade of C- in ECON424. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON470 or ECON471.

Central topics include the determinants of firms' demand for labor and households' decision making about whether to work, how much to work, and where to work. We will then study the equilibrium amount of labor hired in society and the wages paid to workers. The course will also include the measurement of the labor market, human capital, discrimination, incentives, and current changes in the American economic landscape. Various economic policies impacting labor markets will be analyzed.

0101	Nicholas Montgomery	Seats (Total: 38)
	MW 2:00pm - 3:15pm	TYD 1114

ECON481 **Theory and Policy in Environmental Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (AREC326, ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness; Environmental Science & Policy-Env Economics). Also offered as: AREC481. Credit only granted for: ECON481 or AREC481.

An exploration of the use of economic incentives for protection of the environment and the determination of appropriate (or efficient) level of environmental quality. Also covers the choice of policy instruments for the attainment of environmental standards.

Contact department for information to register for this course.

ECON488K **Applied Market Research Practicum; Kaulkin Ginsberg Research Fellow**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Students gain experience applying economic knowledge and producing market research valued by businesses, non-profits, and/or government agencies. Students engage in activities similar to what an intern or entry-level employee would perform. Students work in small groups to find different kinds of data and facts, analyze and interpret this information, and use research findings to develop and present recommendations for simulated clients.

0101	Michael Thomas, Aaron Finkle M 5:30pm - 7:45pm Contact instructor or department for details.	Seats (Total: 16) TYD 2102

ECON490 **Urban & Regional Economics: Issues and Policies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON321, BMGT230, ECON230). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON398I or ECON490. Formerly: ECON398I.

Exploration of urban and regional economics and policies, including economic forces leading to formation of city and regional networks. Conceptual and empirical analysis of policies affecting land use, housing, transportation and other aspects of sub-national economic development.

0101	Nicholas Montgomery MWF 10:00am - 10:50am	Seats (Total: 38) TYD 2111
0201	Nicholas Montgomery MWF 11:00am - 11:50am	Seats (Total: 38) TYD 2102

ECON499 **Independent Research in Economics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Directed research under the supervision of a faculty member. Contact department for additional information.

Prerequisite: 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230, STAT400); and 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and minimum of 3 credits from ECON400-499 course range. Restriction: Permission of BSOS-Economics department. Repeatable to 6 credits if content differs. Directed research under the supervision of a faculty member. Contact department for additional information.

Contact department for information to register for this course.

ECON601 **Macroeconomic Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

Introductory technical treatment of standard Keynesian, classical and new classical macroeconomic models. Expectations formation and microeconomic foundations of consumption, investment, money demand, and labor market behavior.

0101	John Shea, Allan Drazen	Seats (Total: 45)	
	MW 9:30am - 10:45am	TYD 1114	
	M 5:00pm - 6:45pm	TYD 1108	Discussion

ECON603 **Microeconomic Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

A detailed treatment of the theory of the consumer and of the firm, particularly emphasizing the duality approach. Topics include the household production model, imperfect competition, monopolistic and oligopolistic markets.

0101	Emel Filiz Ozbay, Lawrence Ausubel	Seats (Total: 50)	
	TuTh 2:00pm - 3:15pm	TYD 0102	
	Tu 5:15pm - 6:45pm	TYD 0102	Discussion

ECON616 **Economic Development II**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON615, ECON603, and ECON604; or permission of BSOS-Economics department.

Survey of a variety of models explaining how market failures may lead to poverty and underdevelopment, with an emphasis on the empirical evaluation of constraints faced by individuals in developing countries and the programs that attempt to alleviate those constraints. Topics include: agricultural and land markets, labor markets, human capital in developing countries, credit markets, and consumption smoothing and risk coping.

0101	Jessica Goldberg	Seats (Total: 30)	
	MW 11:00am - 12:15pm	TYD 2111	

ECON623 **Econometrics I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have advanced knowledge of probability, statistics, and linear algebra. Restriction: Permission of BSOS-Economics department.

Specification, estimation, hypothesis testing and prediction in the classical and generalized linear regression model. Topics include: ordinary least squares, generalized least squares, instrumental variableestimation, quantile regression, finite and large sample analysis and general testing principles including misspecification tests. The course will also provide instructions on the use of a major statistical packagesuch as Stata or TSP.

0101	John Chao	Seats (Total: 41)	
	TuTh 12:30pm - 1:45pm	TYD 2110	
	Th 5:15pm - 7:00pm	TYD 0102	Discussion

ECON625 **Computational Economics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON624. Credit only granted for: ECON625 or ECON698R. Formerly: ECON698R.

An examination of the specification, computation, estimation and interpretation of structural models that are widely used in applied microeconomics (empirical and theoretical Industrial Organization, public and urban economics, environmental economics, development, political economy (e.g., voting), health and education economics, trade) and Marketing. The focus will be on how to use these models in practice, and students will solve and estimate models in weekly problem sets, with solutions/code being discussed in class.

0101	Andrew Sweeting F 12:30pm - 3:30pm	Seats (Total: 20) TYD 2108	

ECON626 **Empirical Microeconomics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON624. Restriction: Must be in Economics (Doctoral) program.

To provide students with the opportunity to use empirical techniques that are particularly valuable in the analysis of microeconomic data. Topics include panel data, nonlinear optimization, limited dependent variables, truncated, censored, selected samples, the analysis of natural experiments, and quantile regressions. This course will emphasize hands-on practical experience.

0101	Guido Kuersteiner TuTh 11:00am - 12:15pm W 5:00pm - 6:15pm	Seats (Total: 23) TYD 2108 Location: TBA	 Discussion

ECON630 **Computational Methods in Macroeconomics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601. Restriction: Must be in one of the following programs (Economics (Master's); Economics (Doctoral)) ; or permission of BSOS-Economics department.

Essential computational methods used in macroeconomics. There will be particular focus on approximating the solution to dynamic stochastic general equilibrium models. Methods for representative-agent and heterogeneous-agent models will be extensively studied. Econometric methods such as Generalized Method of Moments, Maximum Likelihood, Vector Autoregressions wil also be covered.

Beginning on Fri, October 23rd, students will need to attend an evening meeting from 5:30p-830p.

0101	Sadik Aruoba, Felipe Saffie Tu 2:00pm - 3:15pm MW 2:00pm - 3:15pm	Seats (Total: 16) Location: TBA TYD 4103	

ECON635 **Experimental Economics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

An introduction to the methodology of laboratory and field experiments. The course concentrates on a series of experiments to show how experiments build on one another, allowing researchers with different theoretical dispositions to narrow the range of potential disagreement.

0101	Erkut Ozbay TuTh 2:00pm - 3:15pm	Seats (Total: 20) TYD 1108

ECON641 **Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department. Credit only granted for: ECON641 or ECON506. Formerly: ECON506.

Microeconomic analysis applied to public policy problems with an emphasis on practical examples and how they illustrate microeconomic theories. Policy issues such as pollution, welfare and income distribution, market design, industry regulation, price controls, tax policy and health insurance are practical examples used to illustrate the abstract principles of microeconomics.

PCE1	Aaron Finkle Tu 6:30pm - 9:15pm *Restricted to students in the MPS in Applied Economics-UMCP.*	Seats (Total: 30) TYD 2111	
PR01	Sandra Hoffman **Meets August 28, 2017 - November 17, 2017** Tu 6:45pm - 9:30pm Class time/details on ELMs *Class meets at 1400 16th Street NW., Washington, DC.*	Seats (Total: 22) Location: TBA ONLINE	Discussion

ECON642 **Topics in Applied Macroeconomics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PCE1	Michael Barry	Seats (Total: 30)
	Th 6:30pm - 9:15pm	TYD 2111
	Restricted to students in the MPS in Applied Economics-UMCP.	

ECON643 **Empirical Analysis I: Foundations of Empirical Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ECON643 or ECON521. Formerly: ECON521.

Fundamental aspects of data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn probability theory, confidence intervals, hypothesis testing and regression analysis using the EXCEL spreadsheet program and STATA statistical software.

PCE1	John Straub	Seats (Total: 30)	
	W 6:30pm - 9:15pm	TYD 2111	
	Restricted to students in the MPS in Applied Economics-UMCP.		
PR01	Christian Gregory	Seats (Total: 27)	
	Meets August 28, 2017 - November 17, 2017		
	Th 6:45pm - 9:30pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in the MPS in Applied Economics-WDC. Class meets at 1400 16th Street NW., Washington, DC.		

ECON645 **Empirical Analysis III: Econometric Modeling and Forecasting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON644. Credit only granted for: ECON645 or ECON523. Formerly: ECON523.

Study of empirical techniques that are particularly relevant to the analysis of microeconomic models. Emphasis is on advanced panel data methods, time series regressions, instrumental variables, limited dependent variables, and sample selection corrections.

PCE1	Marquise McGraw	Seats (Total: 40)
	Tu 6:30pm - 9:15pm	TYD 2102
	Restricted to students in the MPS in Applied Economics-UMCP.	

PR01	Cristina Tello-Trillo	Seats (Total: 24)	
	Meets August 28, 2017 - November 17, 2017		
	M 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the MPS in Applied Economics-WDC. Class meets at 1400 16th Street NW., Washington, DC.		

ECON652 **Public Economics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON624.

The characteristics and effects of government programs whose role is redistribution and social insurance are considered. Examples include cash welfare assistance, unemployment insurance, and Social Security. The focus is on U.S. programs, though other countries may be considered. Both theories of program design and empirical research on program effects will be covered. Topics in empirical methodology generally will also be stressed.

0101	Lesley Turner	Seats (Total: 30)
	MW 9:30am - 10:45am	TYD 0101

ECON662 **Theories of Industrial Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Classical theories of industry organization are analyzed. Topics includ monopoly price discrimination, product differentiation and bundling as well as traditional oligopoly models of Cournot and Bertrand are examined. Dynamic models of oligopoly including entry deterrence and collusion are discussed in addition to games of research and development. Long-run industry structures and dynamics are also analyzed. Also investigates implications of these models for antitrust policy.

0101	Daniel Vincent	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 1108

ECON670 **Financial Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

The course applies microeconomic theory and applied econometric techniques to the study of financial institutions and markets for financial assets. Students will learn how economists model and estimate the value of financial assets. The economic and empirical models are of interest to public policy makers and private wealth managers. Specific topics can include financial intermediation, the regulation of financial institutions, risk management, portfolio theory, the capital asset pricing model and the efficient markets hypothesis.

PR01	Lubomir Petrasek	Seats (Total: 27)	
	Meets August 28, 2017 - November 17, 2017		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the Department of Economics' Professional Program. Meets at 1400 16th Street N.W.		

ECON671 **Economics of Health Care**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645. Credit only granted for: ECON671 or ECON565. Formerly: ECON565.

An examination of the structure, conduct and performance of the health care market, including a study of physician services, the pharmaceutical industry, the hospital market and health insurance. Extensive use of quantitative and analytic economic tools with special emphasis on regulatory response to market imperfections.

PCE1	Farah Farahati	Seats (Total: 30)	
	M 6:30pm - 9:15pm	TYD 1101	
	Restricted to students in the MPS in Applied Economics-UMCP.		

ECON673 **Information, Game Theory and Market Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644.

A study of the strategic decision-making and the theory and practice of market design. Focus is on the design of organized market and incentives created by market rules. Topics include online auction markets, government auctions procurement auctions and matching markets. The analysis includes documenting the rules of real-world markets, game theoretic analysis, empirical analysis, and experimental work.

PR01	David Ovadia	Seats (Total: 23)	
	Meets August 28, 2017 - November 17, 2017		
	Tu 6:45pm - 9:30pm	Location: TBA	
	Class time/details on ELMs	ONLINE	Discussion
	Restricted to students in the MPS in Applied Economics-WDC. Class meets at 1400 16th Street NW., Washington, DC.		

ECON675 **Environmental Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645.

A study of the nature of environmental regulation focusing on U.S. environmental policies and policy debates.

PCE1	Hong Kim	Seats (Total: 30)
	W 6:30pm - 9:15pm	TYD 1108
	Restricted to students in the MPS in Applied Economics-UMCP.	

ECON676 **Economic Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Analysis of economic development. The course will focus on the consequences of poverty and poor institutions for the behavior and welfare of individuals, households, firms and the aggregate economy in developing countries. Theoretical models and empirical evidence will be used to understand the intended and unintended consequences of policies designed to enhance economic development.

PR01	Erin Troland	Seats (Total: 16)	
	Meets August 28, 2017 - November 17, 2017		
	Th 6:30pm - 9:45pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the MPS in Applied Economics-WDC. Meets at 1400 16th Street N.W.		

ECON683 **International Macroeconomics and Finance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641 and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Economic analysis of international macroeconomic issues and policy. Topics can include the study of exchange rates, balance of payments, international financial markets, international business cycles, contagion, and the roles played by international economic institutions.

PCE1	Mahsa Agha Gholizadeh	Seats (Total: 30)
	Th 6:30pm - 9:15pm	TYD 0111
	Restricted to students in the MPS in Applied Economics-UMCP.	

ECON698 **Selected Topics in Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ECON701 **Advanced Macroeconomics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601.

Recent developments in macroeconomics with an emphasis on topics and techniques useful for conducting research in macroeconomics. Topics include advanced treatment of fiscal and monetary policy issues; the role of imperfect competition; real, sectoral and nominal business cycle models.

0101	Sadik Aruoba	Seats (Total: 25)
	MW 11:00am - 12:15pm	TYD 0101

ECON703 **Advanced Microeconomics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Formal treatment of game theory and its microeconomic applications are presented, emphasizing dynamics and information. Equilibrium concepts for static and dynamic games, and games with complete and incomplete information are studied. Topics also discussed: mechanism design, efficiency, reputations, signaling, and screening.

0101	Peter Cramton TuTh 9:30am - 10:45am	Seats (Total: 30) TYD 0111

ECON708 **Advanced Topics in Applied and Theoretical Microeconomics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Read, discuss, and analyze current topics in microeconomics, including public economics, environmental economics, labor economics, industrial economics, microeconomic theory, public choice and international trade. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0601	Katharine Abraham MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
2901	Yusuf Masatlioglu MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
4401	Peter Coughlin MW 12:30pm - 1:45pm	Seats (Total: 5) TYD 0111
5501	Ginger Jin MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON709 **Advanced Topics in Applied and Theoretical Macroeconomics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Read, discuss, and analyze current topics in macroeconomics, including asset pricing models, models of economic growth, investment, and the labor market. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	Sadik Aruoba TuTh 12:30pm - 1:45pm	Seats (Total: 5) TYD 0102
0301	Guido Kuersteiner TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0401	Eunhee Lee TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
4101	Ingmar Prucha TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON721 **Econometrics III**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON624; or permission of BSOS-Economics department.

Oriented towards macro-econometric methods. Topics covered will be selected from the following: Further discussion of topics covered in ECON624, nonlinear time series models, exogeneity and causality, non-stationary time series models (unit roots, co-integration, error correction models, vector autoregressive models), econometric models of volatility (ARCH and GARCH models, and Stochastic volatility models), rational expectations models, non-stationary panel data models, tests for structural change, Bayesian econometrics and methods for Bayesian computation.

0101	John Chao TuTh 5:00pm - 6:15pm	Seats (Total: 20) TYD 2108

ECON741 **Advanced International Economics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON601; or permission of BSOS-Economics department.

Exchange rate determination; exchange rate regimes; international monetary reform; policy conflict and cooperation; the LDC debt problem; pricing of international assets; balance of payments crises.

0101	Felipe Saffie	Seats (Total: 20)
	TuTh 9:30am - 10:45am	TYD 2110

ECON742 **Advanced International Economics II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603; or permission of BSOS-Economics department.

Comparative advantage, Heckscher-Ohlin theory, specific-factors model, empirical verification, economies of scale, imperfect competition, commercial policy, factor mobility.

0101	Nuno Limao	Seats (Total: 9)
	TuTh 11:00am - 12:15pm	TYD 4118C

ECON754 **Topics in Political Economy I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON604; or permission of BSOS-Economics department.

Study of political determinants of macroeconomic outcomes. Time inconsistency in monetary and fiscal policy, political business cycles. Political models of redistribution, delay in reform, transition, growth, and international policymaking.

0101	Allan Drazen	Seats (Total: 20)
	MW 11:00am - 12:15pm	TYD 1114

ECON771 **Advanced Labor Economics: Theory and Evidence**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603 and ECON624; or permission of BSOS-Economics department.

Modern analytical and quantitative labor economics. Labor supply decisions of individuals and households; human capital model and distribution of income. Demand for labor; marginal productivity theory, imperfect information and screening. Interaction of labor demand and supply; unemployment; relative and absolute wages; macroeconomic aspects of the labor market.

0101	Judith Hellerstein	Seats (Total: 9)
	MW 2:00pm - 3:15pm	TYD 1108

ECON785 **Advanced Economics of Natural Resources**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603, ECON604, and ECON624.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

Also offered as AREC785. Credit will be granted for one of the following: AREC785 or ECON785.

0101	Jorge Holzer Bilbao, Stephen Salant MW 12:30pm - 1:45pm	Seats (Total: 28) HBK 0123

ECON799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ECON808 **Workshop on Macroeconomics and Growth; Workshop in Applied Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

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0101	Sadik Aruoba W 3:30pm - 5:30pm	Seats (Total: 10) TYD 2110
1301	Allan Drazen W 3:30pm - 5:30pm	Seats (Total: 5) TYD 2110
3501	L Stevens W 3:30pm - 5:30pm	Seats (Total: 5) TYD 2110

ECON848 **Workshop in International Development, and Comparative Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

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2102	Peter Murrell M 3:30pm - 5:30pm	Seats (Total: 20) TYD 2110

ECON868 **Workshop in Industrial Organization**

Credits: 2 Grading Method: Sat-Fail, Audit

Workshops designed to provide a structured environment for our faculty and graduate students to meet regularly to discuss and present their research ideas.

2901	Yusuf Masatlioglu Tu 3:30pm - 5:30pm	Seats (Total: 20) TYD 1108
4701	Daniel Vincent Tu 3:30pm - 5:30pm	Seats (Total: 20) Location: TBA

ECON878 **Workshop in Labor Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

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0601	Judith Hellerstein Th 3:30pm - 5:30pm	Seats (Total: 10) TYD 1118
5801	Lesley Turner Th 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA

ECON898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

EDCI Curriculum and Instruction Fall 2017

EDCI210 **Exploring Teaching as a Career**

Credits: 3 Grading Method: Regular General Education: DSSP

Weekly participation as a volunteer tutor in a local school or community program with children or adolescents. Regular campus meetings assist with developing teaching skills and insight.

0101	Jamar Perry Tu 2:00pm - 4:00pm Contact instructor or department for details.	Seats (Total: 15) EDU 3233	

EDCI280 **Looking Inside Schools and Classrooms**

Credits: 3 Grading Method: Regular

An exploration of teaching in public schools, grades 1-12: student diversity, societal changes, and the expectations of teachers and public schools. Three hour per week field component.

Two hours per week on campus plus three hours per week in a local school off campus. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the offcampus school experience. All schools require that fingerprinting and background checks be completed, at an additional cost of approximately $62, prior to the start of the experience.

0101	Lisa Bote Tu 12:30pm - 2:20pm Tu 8:30am - 11:30am	Seats (Total: 13) EDU 3315 Location: TBA	Lab
0102	Lisa Bote Tu 12:30pm - 2:20pm W 12:30pm - 3:30pm	Seats (Total: 12) EDU 3315 Location: TBA	Lab
0103	Lisa Bote Tu 12:30pm - 2:20pm Th 8:30am - 11:30am	Seats (Total: 13) EDU 3315 Location: TBA	Lab
0104	Lisa Bote Tu 12:30pm - 2:20pm Th 12:30pm - 3:30pm	Seats (Total: 12) EDU 3315 Location: TBA	Lab

EDCI288C **Special Topics in Teacher Education; The Power of the Tongue**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVCC, SCIS

Please check Canvas for room location.

0101	Ebony Shockley Tu 12:00pm - 2:45pm	Seats (Total: 60) Location: TBA

EDCI288D **Special Topics in Teacher Education; Developmental Heuristics**

(Perm req)

Credits: 3 Grading Method: Regular

0101	Tilahun Beyene Contact instructor or department for details.	Seats (Total: 115)

EDCI288W **Special Topics in Teacher Education; Forbidden Books: Censorship of Children's and Young Adult Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

0101	Wayne Slater TuTh 12:30pm - 1:45pm	Seats (Total: 60) TWS 1100

EDCI298 **Special Problems in Teacher Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

EDCI305B **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 Grading Method:

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)

EDCI305M **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 Grading Method:

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

EDCI352 **Curriculum and Instruction in Elementary Education: Mathematics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI362, EDCI342, EDCI372, and EDCI322. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Materials and procedures to help children sense arithmetical meanings and relationships. Development of an understanding of the number system and arithmetical processes. Includes laboratory/field experiences.

0101	Angela Stoltz M 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0201	Angela Stoltz Th 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0301	Imani Goffney Tu 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2121

EDCI355 **Field Experience in Secondary Mathematics Education**

(Perm req)

Credits: 1

Grading Method: Sat-Fail

Prerequisite: Minimum of 6 credits from MATH400-499 course range. Corequisite: EDCI 455. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as an aide to two secondary mathematics teachers (middle grades and high school); assigned responsibilities and participation in a variety of teaching/learning activities.

0101	Angela Stoltz Contact instructor or department for details.	Seats (Total: 20)

EDCI360 **Field Experience in Middle School**

(Perm req)

Credits: 1

Grading Method: Sat-Fail

Prerequisite: EDCI457 and EDCI411; or permission of instructor. Corequisite: EDCI413 and EDCI424. Restriction: Minimum cumulative GPA of 2.5; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in the Middle School Teacher Education Program. Credit only granted for: EDCI355, EDCI360 or EDCI375.

A Middle-school field experience that precedes student teaching.

Two hourse per week required in a school for field experience.

0101	Stacy Pritchett Contact instructor or department for details.	Seats (Total: 0)

EDCI372 **Curriculum and Instruction in Elementary Education: Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: TLPL312, EDCI362, EDCI342, and EDCI322. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Objectives, methods, materials and activities for teaching science in the elementary school; emphasis on teaching strategies which help children learn the processes and concepts of science. Includes laboratory/field experiences.

0101	James McGinnis M 8:30am - 11:15am Contact instructor or department for details.	Seats (Total: 0) EDU 2212
0201	James McGinnis Th 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2212
0301	James McGinnis Tu 12:00pm - 2:45pm Contact instructor or department for details.	Seats (Total: 0) EDU 2212

EDCI375 **Field Experience in Science Education**

Credits: 1 Grading Method: Sat-Fail

Corequisite: EDCI470. Restriction: Must be in Secondary Educ: Science program.

This field experience course is designed to provide prospective teacher with knowledge of theory and best school practice relevant to effective pedagogy, current educational goals, and trends in educational assessment in a public school environment. Topics includes planning, instructional delivery, diversity and individual differences, classroom management, technology, and inclusion of students with special needs.

0101	Tranae Johnson Contact instructor or department for details.	Seats (Total: 15)

EDCI400 **Field Experience in Art Education**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and must be in Secondary Educ: Art program.

Practical classroom experience in teaching/evaluating/exhibiting the products of art lessons.

Six hours for field experience required.

0101	Susan Hendricks	Seats (Total: 10)
	Contact instructor or department for details.	

EDCI403 **Introduction to Teaching Art in Schools**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75.

Introduction to the field of Art Education and the role of the visual arts in grades PreK-12 for today's diverse school populations. The fundamental, historical and philosophic components of art education with an emphasis on arts disciplines and curriculum. Includes a school-based practicum. For those considering art education as a major.

0101	Margaret Walker	Seats (Total: 19)
	Th 9:00am - 12:00pm	EDU 1315

EDCI406 **Technology and Two-Dimensional Art**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT210. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department; and junior standing or higher; and must not be in any of the following programs (Early Childhood Education; Elementary Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Physical Education; Music Education; Special Education).

A discussion/studio format used to develop skills, materials, resources and education strategies for using technology and two-dimensional art in K-12 programs.

0101	Margaret Walker	Seats (Total: 19)	
	Th 12:30pm - 4:05pm	EDU 1315	
	Th 4:15pm - 5:30pm	Location: TBA	Lab

EDCI410 **Methods I: K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI330 or EDCI410. Formerly: EDCI330.

The first of two sequential courses required for achieving competence i teaching a foreign language. The sequel to this course is EDCI433 (Methods II) entitled: Advanced K-12 Foreign Language Methods and Technology. EDCI410 requires on-going examination of theories relevant to language acquisition. Students will also investigate the instructional methods that reflect those theories. Lab and field experiences required.

0101	Perla Blejer MW 2:00pm - 3:15pm	Seats (Total: 15) EDU 3315

EDCI411 **Knowledge, Reasoning, and Learning in Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI370 or EDCI411. Formerly: EDCI370.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

0101	Daniel Levin TuTh 3:30pm - 4:45pm	Seats (Total: 0) KEY 0123
SG91	Daniel Levin TuTh 9:00am - 10:15am	Seats (Total: 36) BLD3 2133
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

EDCI413 **Interdisciplinary Teaching in the Middle Grades I**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL413 and TLPL420; or permission of instructor. Corequisite: EDCI360 and EDCI424. Restriction: Minimum cumulative GPA of 2.75; and must be in the Middle School Teacher Education Program, major code 0804P.

For prospective middle school teachers. Studying and planning interdisciplinary instructional practices in middle school. Utilizes context and experiences from students' field placements. Use of technology and incorporation of technology into instruction.

0101	Janet Walkoe Th 10:00am - 12:00pm	Seats (Total: 0) EDU 3236	

EDCI416 **Teaching and Learning in Secondary Education: English**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: EDCI340 or EDCI416. Formerly: EDCI340.

An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.

Reserve one half day for entire semester for field experience.

0101	Peggy Wilson M 8:30am - 10:15am W 8:30am - 10:15am	Seats (Total: 12) EDU 2121 EDU 2121	 Lab
0102	Peggy Wilson M 8:30am - 10:15am M 2:30pm - 4:15pm	Seats (Total: 12) EDU 2121 KNI 1103	 Lab

EDCI423 **Art Education Methods II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: TLPL435; or students who have taken courses with comparable content may contact the department. Corequisite: TLPL430. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program.

Methods II builds upon the pedagogical foundation of Methods I and provides future art teachers with the means for developing pre K-12 art lessons and unit plans for a balanced qualitative art program for today's diverse and inclusive schools and classrooms.

0101	Susan Hendricks	Seats (Total: 18)
	Tu 9:00am - 12:00pm	EDU 1315

EDCI424 **Equitable Classrooms**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL252, TLPL413, and TLPL420. Corequisite: EDCI360 and TLPL423. Restriction: Minimum cumulative GPA of 2.75; and must be in Middle School Education program.

An exploration and application of major theoretical frameworks surrounding equity and critical pedagogy. Creating habits of mind that help teachers see all students as capable of achieving at high levels. Draws on the concurrent field experience.

0101	Kristin Sinclair	Seats (Total: 0)
	Tu 10:00am - 12:00pm	EDU 2101

EDCI426 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

0101	Lisa Eaker	Seats (Total: 30)
	Th 4:15pm - 7:00pm	ASY 3215

EDCI427 **Curriculum, Teaching, and Assessment in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: TLPL470. Corequisite: EDCI428. Restriction: Must be in Secondary Educ: Social Studies program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Center for Learning & Educational Technology.

An exploration of curriculum development, teaching, and assessment in secondary history/social studies. Focus on identifying students' conceptions of social studies topics and designing lessons that advance students' disciplinary thinking and understanding.

Also offered as EDCI350.

0101	Alison Jovanovic	Seats (Total: 15)
	Tu 5:30pm - 8:15pm	ASY 3217

EDCI428 **Field Experience in Secondary Social Studies Teaching**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Practical experience as an aide to a regular social studies teacher; assigned responsibilities and participation in a variety of teaching/learning activities. Students must reserve one full day per week for internship placement.

Co-requisite: EDCI427. Students must reserve one full day per week for observation.

0101	Alison Jovanovic	Seats (Total: 35)
	Contact instructor or department for details.	

EDCI432 **Issues in the Education of English Language Learners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCI432 or EDCI488Q. Formerly: EDCI488Q.

Introduction to and analysis of current and historical research, practice, trends, and public policy issues in education as they relate to English language learners in K-12 and other settings.

0101	Ethan Sewall	Seats (Total: 25)
	TuTh 9:30am - 10:45am	EDU 2102

EDCI433 **Advanced K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: TLPL445. Corequisite: EDCI438. Restriction: Must be in Secondary Educ: Foreign Languages program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Teaches advanced best practices for effective foreign language instruction. Topics include: using authentic assessment and materials, applying national standards, teaching writing and culture, motivating students, providing strategy instruction, infusing technology, preparing for K-12 employment, and creating a professional portfolio.

EDCI438 must be taken concurrently with EDCI433.

0101	Perla Blejer M 5:00pm - 7:45pm	Seats (Total: 10) EDU 3233

EDCI436 **Understanding Cross-Cultural Communication for Teaching English Language Learners**

Credits: 3 Grading Method: Regular General Education: DVCC

Credit only granted for: EDCI436 or EDCI488T. Formerly: EDCI488T.

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Melinda Martin-Beltran M 1:15pm - 4:00pm	Seats (Total: 25) EDU 3233
0201	Melinda Martin-Beltran W 5:00pm - 7:45pm	Seats (Total: 12) JMZ 3203

EDCI438 **Field Experience in Second Language Education; Field Experience in Second Language Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Practical experience as an aide to a regular foreign language teacher; assigned responsibilities and participation in a variety of teaching/learning activities.

EDCI 433 must be taken concurrently with EDCI 438.

0101	Perla Blejer Contact instructor or department for details.	Seats (Total: 10)

EDCI440 **Internship Seminar in Secondary Education: English**

Credits: 1 Grading Method: Sat-Fail

Prerequisite: EDCI447 and EDCI467. Corequisite: EDCI441 and EDCI474. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

A review and analysis of current instructional theories, strategies and best practice in relation to the teaching internship. Meets at area high school; location provided before first meeting.

Contact department for information to register for this course.

EDCI441 **Internship in Secondary Schools: English**

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI447 and EDCI467. Corequisite: EDCI440 and EDCI474. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as a full-time intern with a fully licensed English teacher in a diverse school setting; assigned professional responsibilities and participates in teaching/learning experiences. Internship lab fee applies. See current program description for details.

Contact department for information to register for this course.

EDCI443 **Literature for Children and Youth**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Elementary Education program; or must be a Pre-Education Major.

Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.

0101	Margaret Peterson W 1:00pm - 3:45pm	Seats (Total: 25) EDU 2101
0301	Margaret Peterson M 1:00pm - 3:45pm	Seats (Total: 23) EDU 2102

EDCI447 **Field Experience in English Teaching**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Corequisite: EDCI467. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as a part-time intern working with a fully licensed English teacher in a diverse school setting. Students must reserve one full day or two half days per week for the part-time internship.

Secondary English/speech/drama education majors only. Students must reserve one full day per week for observation.

0101	Peggy Wilson	Seats (Total: 25)
	Contact instructor or department for details.	

EDCI451 **Student Teaching in Secondary Schools: Mathematics**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Corequisite: EDCI450. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department; and must be in Secondary Educ: Mathematics program.

Contact department for information to register for this course.

EDCI457 **Teaching and Learning Middle School Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore EDCI 457 students will be expected to travel to a local middle school for 8-10 of the class meetings.

0101	Monica Dunsworth	Seats (Total: 25)
	TuTh 3:10pm - 5:00pm	EDU 2121

EDCI461 **Materials and Instruction for Creating Skilled and Motivated Readers, Part I**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Elementary Education program; and junior standing or higher. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Selecting, evaluating, and using a variety of materials and instructional strategies to create skilled and motivated readers in the elementary grades; Topics include emergent literacy, vocabulary development, reading comprehension and oral reading fluency in diverse classroom settings.

Contact department for information to register for this course.

EDCI463 **Reading in the Secondary School**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and permission of department required for post-baccalaureate students.

Provides secondary school teachers with understanding the need for and approaches to teaching students to read and learn from content area texts.

Also offered as EDCI 661.

0101	Olivia Saracho Tu 2:00pm - 4:30pm	Seats (Total: 30) WDS 1114
0201	Olivia Saracho W 2:00pm - 4:30pm	Seats (Total: 23) ASY 3217

EDCI466 **Literature for Adolescents**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department.

Reading and analysis of fiction and nonfiction; methods for critically assessing quality and appeal; current theory and methods of instruction; research on response to literature; curriculum design and selection of books.

0101	Colleen Gannon M 5:00pm - 7:45pm	Seats (Total: 30) EDU 2119

EDCI467 **Teaching Writing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: EDCI447. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Examines current theory, research, best practice, curricula and materials for teaching written communication in grades K-12. Focuses on analytical, argumentative, informative/explanatory, literary analysis, narrative, descriptive, and research writing. Emphasizes instructional planning, assessment, writer problem-solving strategies, information search, development, organization and style appropriate to task, purpose and audience for both non-digital and digital text. English Language Learner and special needs pupil issues considered.

0101	Wayne Slater	Seats (Total: 30)
	Th 5:00pm - 7:45pm	EDU 2121

EDCI474 **Teaching Academically, Culturally, and Linguistically Diverse Students in Secondary Education**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Enrolled in internship/certification area. Restriction: Must be in one of the following programs (Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Multi-disciplinary capstone course for Secondary Education majors. Discussion of pedagogical and content issues relevant for teaching academically, culturally, and linguistically diverse students with particular emphasis on students with special educational needs and English language learners. Students develop and use curriculum-based assessments and/or lessons with these groups of students.

0101	Lijuan Shi, Miji Kim	Seats (Total: 0)
	Tu 9:15am - 10:00am	EDU 2101
	Th 9:15am - 10:00am	EDU 3236
	Contact instructor or department for details.	

EDCI475 **Embracing Diversity in the Classroom Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Admission to teacher education program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI475 or EDCI488L. Formerly: EDCI488L.

An exploration of the richness and complexity of student diversity that teacher candidates will encounter in K-12 classrooms. Students will engage in critical reflection around diversity and equity issues.

0101	Saroja Warner	Seats (Total: 25)
	Tu 3:30pm - 6:15pm	JMZ 0103

EDCI488A **Selected Topics in Teacher Education; Classroom Interactions**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Please contact Anisha Campbell, amcamp10@umd.edu, for registration permission and additional course information.

0101	Daniel Levin M 5:00pm - 8:00pm	Seats (Total: 20) EDU 2212

EDCI488C **Selected Topics in Teacher Education; Foundations of Literacy and Biliteracy Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Megan Stump MW 11:00am - 12:15pm	Seats (Total: 25) LEF 1220

EDCI488F **Selected Topics in Teacher Education; Promoting Skilled and Motivated Readers in Elementary Classrooms (Part 2)**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0101	Peter Afflerbach Tu 12:10pm - 2:45pm	Seats (Total: 0) EDU 1315
0201	Ayanna Baccus W 8:30am - 11:15am	Seats (Total: 0) EDU 2212
0301	Jennifer Himmel M 12:00pm - 2:45pm	Seats (Total: 0) ASY 3215

EDCI488M **Selected Topics in Teacher Education; Knowing and Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Prerequisite: permission of department.

0101	Lawrence Clark W 4:00pm - 6:50pm	Seats (Total: 20) PHY 1108

EDCI488P **Selected Topics in Teacher Education; Project Based Instruction (PBI)**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pre- or Co-requisite: EDCI 488M. Please contact Anisha Campbell, amcamp10@umd.edu, for registration permission and additional course information. Additional Information: Field experience for this course will require students to be available for a 2-4 hour block of time at various points throughout the semester to complete observations and teach lessons between 8:00 a.m. and 3:30 p.m. Fourth course in the Terrapin Teachers teacher preparation sequence. This course builds upon the inquiry-based practices developed in prior courses, with a focus on using project-based instruction for teaching math and science. Students will work closely with College of Education faculty and Master Teachers to develop and implement a multi-day series of lessons in a local high school class. This mini-unit includes a field study experience for the high school students.

0101	Sarah Henson-Darko TuTh 3:30pm - 4:50pm	Seats (Total: 20) EDU 2212

EDCI488R **Selected Topics in Teacher Education; Language and Literacy Development in Schools and Communities**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Loretta Holmberg-Masden Tu 9:00am - 11:45am	Seats (Total: 28) EDU 3236
0201	Leslie Page-Voth Th 9:00am - 11:45am	Seats (Total: 28) EDU 2212
0301	Leslie Page-Voth M 9:00am - 11:45am	Seats (Total: 28) EDU 3236

EDCI488Z **Selected Topics in Teacher Education; Classroom Interactions Lab Experience**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Please contact Anisha Campbell, amcamp10@umd.edu, for registration permission and additional course information.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

EDCI489 **Field Experiences in Education**

(Perm req) Credits: 1-4 Grading Method: Sat-Fail, Audit

Contact department for information to register for this course.

EDCI489B **Field Experiences in Education; Tutoring**

(Perm req) Credits: 1 Grading Method: Sat-Fail, Audit

Must be an Elementary Education major with a minimum cumulative GPA of 2.75. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the off-campus school experience. All schools require a background check and fingerprinting, which must be completed annually, prior to the start of the experience, at an additional cost of approximately $62.

0101	Leslie Gettier M 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0102	Leslie Gettier M 12:30pm - 3:30pm	Seats (Total: 20) Location: TBA	Lab
0103	Leslie Gettier Tu 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0104	Leslie Gettier Tu 12:30pm - 3:30pm	Seats (Total: 20) Location: TBA	Lab
0105	Leslie Gettier Tu 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab
0106	Leslie Gettier W 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0107	Leslie Gettier W 11:00am - 2:00pm	Seats (Total: 20) Location: TBA	Lab
0108	Leslie Gettier W 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab
0109	Leslie Gettier Th 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab

0110	Leslie Gettier Th 11:00am - 2:00pm	Seats (Total: 20) Location: TBA	Lab
0111	Leslie Gettier Th 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab
0112	Leslie Gettier F 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0113	Leslie Gettier F 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab

EDCI498 **Special Problems in Teacher Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Individual study of approved problems.

Contact department for information to register for this course.

EDCI602 **The Teaching of Aesthetics in the Public Schools**

Credits: 3 Grading Method: Regular, Audit

Critical investigation of art, and curriculum implications.

0101	Margaret Walker Tu 4:15pm - 7:00pm	Seats (Total: 17) EDU 1315

EDCI603 **Integrated Art Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI680; or TLPL435. Restriction: Must be in a major within the EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI423, EDCI603, or EDCI688D. Formerly: EDCI688D.

Builds upon the pedagogical foundation of an initial art education methods course and provides future art teachers with the means for developing PreK-12 art lesson/unit plans for a balanced qualitative art program for today's diverse and inclusive schools/classrooms. Integratin g art with other subject areas.

Contact department for information to register for this course.

EDCI604 **Learning and Teaching in the Physical Sciences I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Enrollment in an EDCI Outreach Program in science education; or must be in Curriculum and Instruction (Master's) program; or permission of instructor. Credit only granted for: EDCI604 or EDCI688F. Formerly: EDCI688F.

Engagement in laboratory and inquiry-based methods to develop coherent understandings about the physical world and explore issues in the physical sciences. Personal engagements with phenomena and reflection on the learning and instructional experiences.

Contact department for information to register for this course.

EDCI611 **Studying Student Learning in Diverse Settings**

Credits: 3 Grading Method: Regular, Audit

This course deepens teacher understanding of student development and th cultural context for teaching through readings and focused field studies. Participants will also begin developing skills needed for investigations using methods of interpretive inquiry.

Contact department for information to register for this course.

EDCI618 **Proseminar for Teaching Internship**

Credits: 1-3 Grading Method: Regular, Audit

Supports and complements candidates' internship experiences. Extends skills in implementing less plans (lesson planning), culturally competent teaching, classroom management, issues of professionalism, and protfolio development.

Contact department for information to register for this course.

EDCI619 **Developing a Professional Portfolio**

Credits: 1-3 Grading Method: Regular, Audit

Students will examine issues of performance assessment and develop professional portfolios following the guidelines established by the National Board for Professional Teaching Standards. Drawing on the research data collected throughout their program and relying on inquiry, reflections, and analysis, they will synthesize and present the body of their teaching experience.

Contact department for information to register for this course.

EDCI625 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3 Grading Method: Regular

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

Contact department for information to register for this course.

EDCI627 **Secondary Social Studies Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI426; or EDCI680. Credit only granted for: EDCI627 or EDCI788Y. Formerly: EDCI788Y.

The second course in a three-course teaching methods sequence. Addresses two key questions: (1) How do secondary school students think about and learn history/social studies? (2) How can secondary teachers teach history/social studies in ways that promote student learning?

Contact department for information to register for this course.

EDCI630 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credits: 3 Grading Method: Regular, Audit

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

0101	Jeff MacSwan	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

EDCI632 **Special Education and Oral Language Development in TESOL**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI632 or EDCI788L. Formerly: EDCI788L.

Understanding of pre-referal, referal, assessment and identification process, as well as instruction of English Language Learners with learning disabilities. Required for TESOL Certification program.

Contact department for information to register for this course.

EDCI633 **Teaching for Cross Cultural Communication**

Credits: 3 Grading Method: Regular, Audit

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Melinda Martin-Beltran	Seats (Total: 13)
	W 5:00pm - 7:45pm	JMZ 3203

EDCI634 **Methods of Teaching ESOL**

Credits: 3 Grading Method: Regular, Audit

This course presents a survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar to translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed.

0101	Megan Peercy	Seats (Total: 20)
	Th 5:00pm - 7:45pm	ASY 3217

EDCI635 **English Grammar for Teachers of English to Speakers of Other Languages**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department.

English grammar and methods of teaching grammar for graduate, prospective and current teachers of English to speakers of other languages. Analysis of the major grammatical structures of American English. Discussion of the role of teaching grammar, and effective classroom methods and techniques for the English as a second/foreign language classroom.

0101	Denis Sullivan	Seats (Total: 25)
	Tu 5:00pm - 7:45pm	JMZ 0122

EDCI636 **Teaching ESOL Reading and Writing in the Elementary Classroom Areas**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI634.

Analysis of elementary school classroom culture, social contexts, and instructional strategies which foster language development in elementary school content areas.

Contact department for information to register for this course.

EDCI640 **Trends in Secondary School Curriculum: English**

Credits: 3 Grading Method: Regular, Audit

Recent developments in educational thinking and practice on the curriculum in English education.

Contact department for information to register for this course.

EDCI650 **Trends in Mathematics Education**

Credits: 3 Grading Method: Regular, Audit

Recent developments in educational thinking and practice which have affected the curriculum in mathematics.

MCMM Mont. Co. Middle School Math Program, registration restricted to program participants.

Contact department for information to register for this course.

EDCI651 **Teaching and Learning Mathematics in Secondary Schools**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Enrollment in a University of Maryland program leading to teacher certification; and bachelor's degree in mathematics or related field; and 2 semesters of calculus.

Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks, technology and other instructional materials; assessment of student learning and other topics pertinent to secondary mathematics education. Internship of other placement in a secondary mathematics classroom is required.

Prerequisite: Permission of department.

Contact department for information to register for this course.

EDCI652 **Teaching and Learning Mathematics in the Elementary School**

Credits: 3 Grading Method: Regular

Prerequisite: MATH212, MATH213, or MATH214; or students who have taken courses with comparable content may contact the department.

Strategies and methodologies for the teaching of elementary school mathematics based on current research and theories about how children learn mathematics. Attention is given to professional recommendations and teaching practices that foster communication, reasoning, and reflection in the mathematics classroom. Internship or other placement in an elementary school is required.

Contact department for information to register for this course.

EDCI656 **Teaching and Learning Statistics in the Middle School**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admission to M.Ed. or M.A. program in EDCI with concentration in Mathematical Education.

Designed to enhance both the pedagogical and statistical/data analysis content knowledge of middle school mathematics teachers.

Contact department for information to register for this course.

EDCI660 **Foundations of Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or TLPL462; or students who have taken courses with comparable content may contact the department.

Broad and comprehensive overview of reading and literacy and factors that may influence effective reading practices such as instruction, classroom environment and individual differences. Focus on different knowledge domains and traditions of inquiry related to reading and reading instruction.

0101	Peter Afflerbach	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	ASY 3221

EDCI661 **Content Area Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or TLPL462; or students who have taken courses with comparable content may contact the department.

Research-based strategies for improving reading to learn in the content areas (K-12).

0101	Ying Alice Zhang	Seats (Total: 20)
	Tu 5:00pm - 7:45pm	KNI 1103

EDCI662 **Diagnostic Reading Assessment and Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

EDCI663 **Understanding, Evaluating and Using Research in School Reading Programs**

Credits: 3 Grading Method: Regular, Audit

Focus on understanding, critiquing, and applying reading/literacy research; reviewing research to improve practice; analyzing data at the district, school, classroom, and student levels to improve reading instruction.

0101	Mariam Dreher	Seats (Total: 25)
	Th 4:15pm - 7:00pm	EDU 3315

EDCI664 **Clinical Assessment in Reading**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI661 and EDCI663; or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Clinical diagnostic techniques and materials for assessing reading strengths and needs.

Contact department for information to register for this course.

EDCI671 **Teaching Science in Elementary Schools**

Credits: 3 Grading Method: Regular, Audit

Identification of problems in teaching science. Methods for improving the effectiveness of science education.

Contact department for information to register for this course.

EDCI675 **Learning to Teach and Learn Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: TLPL420; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Restriction: Must be in the Maryland Master's Certification program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI675 or EDCI788V. Formerly: EDCI788V.

Developing practices of instruction in science teaching in the context of understanding student science learning.

Contact department for information to register for this course.

EDCI682 **Reframing Teacher Professionalism: Achieving Teacher Leadership**

Credits: 3

Grading Method: Regular, Audit

Understanding the profession of teaching, teacher leadership, and the knowledge base that undergirds the teaching profession. Multiple perspectives on teaching in the current debate on school reform and how they are aligned across the political spectrum.

0101	David Imig	Seats (Total: 20)
	W 4:30pm - 7:00pm	EDU 2119

EDCI683 **Teaching and Learning Number in the Middle Grades**

Credits: 3

Grading Method: Regular, Audit

Restriction: Admission to M.A or M.Ed. w/ concentration in Mathematics Education; or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Students develop reflective, theoretical perspectives toward and practical approaches for the teaching and learning of the number system in middle school. There is an emphasis on rational numbers and its pedagogical content knowledge.

Contact department for information to register for this course.

EDCI688A **Special Topics in Curriculum and Instruction; Advanced K-12 Foreign Language Methods and Technology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Current topics and issues in teaching.

0101	Perla Blejer	Seats (Total: 5)
	M 5:00pm - 7:45pm	EDU 3233

EDCI688C **Special Topics in Curriculum and Instruction; Teaching Middle School Math for English Learners**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

Contact department for information to register for this course.

EDCI688E **Special Topics in Curriculum and Instruction; Connecting to the Core Curriculum: Building Teaching Capacity for Arts Integration**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

Contact department for information to register for this course.

EDCI688J **Special Topics in Curriculum and Instruction; Multiliteracies: Theory and Practice**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

Contact department for information to register for this course.

EDCI688K **Special Topics in Curriculum and Instruction; Methods I: K-12 Foreign Language Methods and Technology**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

0101	Perla Blejer	Seats (Total: 5)
	MW 2:00pm - 3:15pm	EDU 3315

EDCI688R **Special Topics in Curriculum and Instruction; Explorations in Mathematics for Elementary Teachers**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

Contact department for information to register for this course.

EDCI689 **Teaching Internship**

Credits: 1-9

Grading Method: Regular, Audit

Internship experiences in elementary or secondary teaching with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to graduate teacher education program option.

Student lab fee may apply. Contact program for details.

0101	Perla Blejer Contact instructor or department for details.	Seats (Total: 10)
0201	Jennifer Himmel Contact instructor or department for details.	Seats (Total: 10)

EDCI697 **Embracing Diversity in Classroom Communities**

Credits: 3 Grading Method: Regular, Audit

The course aims to help students understand race, class, gender, and sexuality as systems of privilege, exclusion, marginalization, and the centrality of embracing diversity in the classroom communities to promote the success of all students.

0101	Taharee Jackson Tu 5:00pm - 7:45pm	Seats (Total: 25) EDU 1121

EDCI698 **Conducting Research on Teaching**

(Perm req)

Credits: 1-3 Grading Method: Regular

Application of the knowledge base on effective teaching to the analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project.

0101	Kathleen Travers Class time/details on ELMs	Seats (Total: 20) ONLINE

EDCI730 **Language and Education**

Credits: 3 Grading Method: Regular, Audit

Dialect, language varieties in school settings; historical and current perspectives on the role of language in learning; theories of school achievement and consequences for language assessment.

0101	Jeff MacSwan W 1:00pm - 3:45pm	Seats (Total: 20) EDU 2102

EDCI732 **Second Language Acquisition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department.

Major theoretical approaches to second language acquisition. For teaching English to speakers of other languages (TESOL).

0101	Drew Fagan Th 5:00pm - 7:45pm	Seats (Total: 20) EDU 2101

EDCI751 **Theory and Research on Mathematical and Scientific Thinking and Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admitted to Doctoral Program in Mathematics Education or Science Education; or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Study of mathematical and scientific thinking by students at various levels of schooling considered from the perspective of those classic and contemporary theories of learning that are particularly relevant to the study of mathematics and science. Exploration of what it means to understand mathematics and science.

0101	Janet Walkoe M 4:15pm - 7:00pm	Seats (Total: 20) EDU 2121

EDCI758 **Research Seminar in Mathematics and Science Education**

Credits: 1 Grading Method: Regular, Audit

Read, plan, conduct, and report on research projects and research topics in mathematics and science education. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.

0101	Daniel Chazan F 10:00am - 1:30pm	Seats (Total: 20) EDU 2121

EDCI776 **Urban Education**

Credits: 3 Grading Method: Regular, Audit

This seminar provides students with a broad overview of urban education as a field of inquiry by examining the social context of urban schools, how transformative pedagogy is practiced and conceptualized as well as school reform.

0101	Tara Brown W 4:15pm - 7:00pm	Seats (Total: 20) EDU 2121

EDCI788 **Selected Topics in Teacher Education; Selected Topics in Teacher Education**

Credits: 1-3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

Contact department for information to register for this course.

EDCI788C **Selected Topics in Teacher Education; Foundations in Literacy Research**

Credits: 3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Mariam Dreher M 4:15pm - 7:00pm	Seats (Total: 20) EDU 2102

EDCI788L **Selected Topics in Teacher Education; Critical Race Theory**

Credits: 3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Taharee Jackson M 7:00pm - 9:45pm	Seats (Total: 20) EDU 1315

EDCI788R **Selected Topics in Teacher Education; Applied Linguistics Doctoral Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Megan Peercy F 12:00pm - 2:00pm	Seats (Total: 20) EDU 1107

EDCI788W **Selected Topics in Teacher Education; Pedagogy of Teacher Education**

Credits: 3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Megan Peercy, David Imig Th 9:30am - 12:15pm	Seats (Total: 20) EDU 2119

EDCI791 **Qualitative Research I: Design and Fieldwork**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI790. Formerly: EDCI684.

Builds on EDCI790 to examine in more depth the theoretical and epistemological moorings of different types of qualitative research. Students apply selected field research methods to problems of professional practice in schools and communities while considering central issues and dilemmas that arise while engaging in fieldwork.

0101	Jennifer Turner W 4:30pm - 7:15pm	Seats (Total: 20) TWS 1321

EDCI798 **Special Problems in Teacher Education; STEM (MCSTE) Outreach Program**

Credits: 1-6 Grading Method: Regular, Audit

Intended for Masters, AGS, or doctoral students in education who desire to pursue a research problem.

Teacher Leadership STEM Outreach Program. Registration restricted to program participants.

Contact department for information to register for this course.

EDCI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDCI888 **Apprenticeship in Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCI889 **Internship in Education**

(Perm req)

Credits: 3-8

Grading Method: Regular, Audit

Internship experiences with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCI898 **Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EDCI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services Fall 2017

All sections of EDCP 108, except EDCP 108D, 108J and 108R are closed to Seniors.

EDCP108B **College and Career Advancement: Concepts and Skills; Academic Success Strategies**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Course registration is closed to seniors, but they may request enrollment with permission from the instructor and only if seats are available. This course is designed to empower students to become more active learners in college and in life. By examining prior and current learning strategies, students will be encouraged to make wise choices to create new pathways for growth now and in the future.

0101	Shirley Browner	Seats (Total: 25)
	Meets September 5, 2017 - December 11, 2017	
	Class time/details on ELMs	ONLINE
	This online course will have one individual meeting with the instructor which is to be arranged. For more information, please contact the course instructor by email.	

0201	Kimberly Bethea **Meets October 9, 2017 - December 11, 2017** Class time/details on ELMs *This online course will have one individual meeting with the instructor which is to be arranged. For more information, please contact the course instructor by email.*	Seats (Total: 25) ONLINE
0301	Shirley Browner **Meets September 5, 2017 - December 11, 2017** Class time/details on ELMs *This online course will have one individual meeting with the instructor which is to be arranged. For more information, please contact the course instructor by email.*	Seats (Total: 25) ONLINE
0401	Kimberly Bethea **Meets September 5, 2017 - December 11, 2017** Class time/details on ELMs *This online course will have one individual meeting with the instructor which is to be arranged. For more information, please contact the course instructor by email.*	Seats (Total: 30) ONLINE
FCW1	Kimberly Bethea **Meets October 8, 2017 - December 11, 2017** Class time/details on ELMs	Seats (Total: 10) ONLINE

EDCP108I **College and Career Advancement: Concepts and Skills; Academic Transitions to Internships**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

This course is recommended for students who have never had an internship and are actively searching for one. Students participating in this course will engage in the full experience of searching for an internship Course registration is closed to graduating seniors.

0101	Caroline Lee **Meets August 28, 2017 - October 13, 2017** Class time/details on ELMs	Seats (Total: 30) ONLINE

0201	Erin Rooney-Eckel **Meets August 28, 2017 - October 13, 2017** Class time/details on ELMs	Seats (Total: 30) ONLINE
0301	Erica Ely **Meets October 23, 2017 - December 8, 2017** Class time/details on ELMs	Seats (Total: 30) ONLINE
0401	Hawi Bekele Bengessa **Meets October 23, 2017 - December 8, 2017** Class time/details on ELMs	Seats (Total: 30) ONLINE
0501	Maria Bowman **Meets October 23, 2017 - December 8, 2017** Class time/details on ELMs	Seats (Total: 30) ONLINE

EDCP108M **College and Career Advancement: Concepts and Skills; Math Study Skills and Building Confidence**

Credits: 1 Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

This course is recommended for freshmen and sophomore students enrolled in a math class who would like to increase their math confidence and learn how to study math efficiently. Other students may request enrollment with permission from the instructor. This hybrid course includes two in-person meetings (to be arranged) and weekly online assignments.

0101	Megan Bergandy **Meets September 5, 2017 - November 17, 2017** Contact instructor or department for details. Class time/details on ELMs	Seats (Total: 35) ONLINE

EDCP108N **College and Career Advancement: Concepts and Skills; Diversity Issues and Academic Strategies for Success**

Credits: 1 Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Solomon Comissiong, Ronald Zeigler M 10:00am - 11:00am	Seats (Total: 25) NCC 0120
0201	Christopher Lester W 6:00pm - 7:50pm	Seats (Total: 40) HBK 0302H
	This class will meet in the Non-print Media Services center, Room H.	

EDCP220 **Introduction to Human Diversity in Social Institutions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DVUP

This highly-interactive format focuses on individual and social identities in the U.S., group differences and intergroup relations, systems of privilege and oppression, and advocacy for social justice. Topics will include diversity related to race, ethnicity, gender, sexual orientation, social class, (dis)ability, and religion. Course fulfills CORE requirements in diversity, social/behavioral bases, and interdisciplinary study. Some sections restricted.

0101	Katherine Morales MW 11:00am - 12:15pm	Seats (Total: 18) EDU 3233
0201	Ha Ahn TuTh 2:00pm - 3:15pm	Seats (Total: 18) JMZ 2122

EDCP298 **Special Problems in Counseling and Personnel Services**

Credits: 1-3 | Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP298Z **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

Credits: 3 | Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP310 **Peer Counseling Theory and Skills**

Credits: 3 Grading Method: Regular

Credit only granted for: EDCP210, EDCP310, or PSYC433.

The theories and skills of peer helping relationships. Counseling theories and skills at a level appropriate for students seeking basic level training for use in peer counseling settings.

Closed to students who have taken, or are presently taking, PSYC 433.

0201	Jill Briody MW 1:00pm - 2:15pm	Seats (Total: 18) KEY 0119
0301	Ana-Sophia Ross TuTh 2:00pm - 3:15pm	Seats (Total: 18) EDU 1121
0601	Stephanie Yee TuTh 1:00pm - 2:15pm	Seats (Total: 18) LEF 1222

EDCP386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Special EDCP form required.

Contact department for information to register for this course.

EDCP489 **Field Experiences in Counseling and Personnel Services**

(Perm req)

Credits: 1-4 Grading Method: Regular General Education: DVUP

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP610 **Professional Orientation**

Credits: 3

Grading Method: Regular, Audit

Survey of knowledge base and practices in counseling and personnel services specializations, professional ethics, credentialling relevant legislation, current issues.

For Student Affairs students only.

0101	Michelle Espino Th 9:00am - 11:50am *Limited to Student Affairs graduate students.*	Seats (Total: 20) EDU 2101
0201	Natasha Mitchell M 4:15pm - 7:00pm *Limited to School Counseling Students.*	Seats (Total: 20) EDU 3236

EDCP615 **Counseling I: Appraisal**

Credits: 3

Grading Method: Regular, Audit

Corequisite: EDCP618. Restriction: Must be in a major within EDUC-Counseling, Higher Education and Special Education department.

Collection and interpretation of appraisal data, synthesis of data through case study procedures. Development of interview skills.

0101	Jessica McKechnie Th 4:15pm - 7:00pm	Seats (Total: 11) ASY 3221

EDCP616 **Counseling II: Theory and Practice**

Credits: 3

Grading Method: Regular, Audit

Corequisite: EDCP618.

Counseling theories and the practices which stem from such theories.

For EDCP majors only.

0101	Jessica McKechnie Tu 4:15pm - 7:00pm *Limited to Students in the Masters Program.*	Seats (Total: 26) EDU 1107

EDCP617 **Group Counseling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP616.

A survey of theory, research and practice of group counseling and psychotherapy, with an introduction to growth groups and the laboratory approach, therapeutic factors in groups, composition of therapeutic groups, problem clients, therapeutic techniques, research methods, theories, ethics and training of group counselors and therapists.

0101	Cixin Wang Tu 9:30am - 12:15pm	Seats (Total: 10) ASY 3221

EDCP618 **Counseling Skills: Introduction to Practicum**

Credits: 1-6 Grading Method: Regular

Development and utilization of counseling skills.

0201	Matthew Miller Tu 1:00pm - 4:00pm	Seats (Total: 10) LEF 0135
0301	Matthew Miller Tu 1:00pm - 4:00pm	Seats (Total: 10) JMP 1109

EDCP619B **Practicum in Counseling**

Credits: 3 Grading Method: Regular, Audit

Sequence of supervised counseling experiences of increasing complexity. Limited to eight applicants in advance. Two hours class plus laboratory.

0101	Sharon Kirkland-Gordon Th 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 4) SHM 1106

EDCP632 **Cognitive Assessment**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of EDUC-Counseling, Higher Education and Special Education department.

Assessment of cognitive functioning of children and adolescents in reference to school learning and behavior problems. Administering, scoring and interpreting cognitive assessment instruments commonly used in school systems.

Class meets in 1102M Seneca Building.

Click here for Google Map Directions. Click here for UMD Map for Seneca Directions.</A

0101	Jill Jacobson W 9:00am - 11:45am	Seats (Total: 10) Location: TBA

EDCP640 **School Psychology Seminar: Overview of the Specialty**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews the specialty of school psychology, including history of the specialty, roles and functions of school psychologists, and current professional issues related to the specialty.

0101	Colleen O'Neal M 1:00pm - 2:45pm	Seats (Total: 10) EDU 3236

EDCP641 **School Psychology Seminar: Professional Ethics**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews ethical issues in the specialty of school psychology.

0101	Colleen O'Neal M 2:45pm - 4:00pm	Seats (Total: 10) EDU 3236

EDCP652 **Research in Counseling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Counseling program. Credit only granted for: EDCP652 or EDCP789Y. Formerly: EDCP789Y.

An exploration of basic and applied research, program evaluation, and associated measurement and evaluation skills crucial for professional school counselors.

0101	Paul Gold W 4:15pm - 7:00pm	Seats (Total: 15) EDU 3236

EDCP671 **Intergroup Dialogue Facilitation Practicum**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP616, EDCP614, and HESI771; or permission of instructor. Restriction: Limited to college student personnel students only. Credit only granted for: EDCP498L or EDCP671. Formerly: EDCP498L.

Developing knowledge and skills for facilitating intergroup dialogues. Using the principles and content of intergroup dialogues to create scenarios for the practice of listening, understanding, and taking action under theories of social justice.

0101	Alison Mojto Tu 4:15pm - 7:00pm	Seats (Total: 10) TWS 1321

EDCP682 **Counseling Psychology Didactic Practicum in Group Interventions**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC682. Formerly: EDCP718.

In depth examination of theories and techniques of group interventions; supervised experience in group counseling.

0101	Pepper Phillips Tu 1:00pm - 4:00pm	Seats (Total: 10) SHM 1106A

EDCP685 **Counseling Psychology Didactic Practicum in Counseling Supervision**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC685. Formerly: EDCP745.

In depth examinatin of theories and techniques of counseling supervision, supervised experience in the process of supervising counselors.

0101	Robert Lent W 10:00am - 12:45pm	Seats (Total: 10) Location: TBA

EDCP697 **Multicultural Issues in Counseling Psychology**

Credits: 3 Grading Method: Regular

Prerequisite: Only open to Counseling Psychology majors. Also offered as: PSYC697. Credit only granted for: EDCP697, EDCP699, or PSYC697. Formerly: EDCP699.

Exploration of knowledge, attitudes and skills for providing counseling and psychological services to culturally diverse populations.

0101	Richard Shin	Seats (Total: 10)
	Tu 4:00pm - 6:45pm	EDU 2101

EDCP738 **Practicum in Child Assessment**

Credits: 3 Grading Method: Regular, Audit

Administration of complete test batteries to children; supervision of initial interviews; test administration and scoring; interpretation and synthesis of test battery and interview material; the psychological report; verbal interpretation of test results; and recommendations. Taken initially with EDCP 633; repeated with EDCP 634 in the subsequent semester.

Class meets in 1102M Seneca Building.

0101	Jill Jacobson	Seats (Total: 10)
	Th 9:00am - 12:15pm	Location: TBA

EDCP741 **Multicultural Practice in Student Affairs: Self, Education, and Society**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP771. Credit only granted for: EDCP741 or EDCP789Z. Formerly: EDCP789Z.

Develop knowledge and skills in the area of multicultural practice in student affairs through the examination of oppression, power, and privilege and how these dynamics impact individuals, educational institutions, and societies.

0101	Candace Moore	Seats (Total: 12)
	W 1:00pm - 4:00pm	EDU 3236

EDCP746 **Clinical Supervision of Pupil Personnel Services**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Advanced Doctoral Students Only. Restriction: Permission of instructor.

Supervision of role of psychologists and counselors in school settings; applied skills in supervision of services.

0101	Cixin Wang	Seats (Total: 10)
	W 10:00am - 12:45pm	ASY 3207

EDCP772 **Research in Student Affairs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP656; or permission of instructor. Restriction: Must be in the College Student Personnel program.

Research designs and approaches to research in student development and higher education. Development of research for research competency or dissertation proposal.

0101	Kimberly Griffin	Seats (Total: 10)
	Tu 9:00am - 11:45am	ATL 1106

EDCP774 **Advanced Seminar in Theories of College Student Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP771; or students who have taken courses with comparable content may contact the department.

An opportunity for in-depth study, dialogue, and reflection about theoretical frameworks for understanding the development of college students. Specific attention is given to enhancing knowledge and understanding of the development of students when social identities and their intersections are considered.

0101	Melissa Rocco	Seats (Total: 20)
	Tu 1:00pm - 4:00pm	EDU 2101

EDCP789 **Advanced Topics in Counseling and Personnel Services**

Credits: 1-6 Grading Method: Regular, Audit

0201	Matthew Miller	Seats (Total: 5)
	Contact instructor or department for details.	
0901	Natasha Chapman	Seats (Total: 6)
	Contact instructor or department for details.	

1201	Kristan Skendall Contact instructor or department for details.	Seats (Total: 6)
4801	Craig Slack Contact instructor or department for details.	Seats (Total: 6)
5101	Candace Moore Contact instructor or department for details.	Seats (Total: 5)
6701	Daniel Ostick Contact instructor or department for details.	Seats (Total: 6)
6801	Adrienne Wicker Contact instructor or department for details.	Seats (Total: 6)
7701	Wallace Eddy Contact instructor or department for details.	Seats (Total: 6)

EDCP789Q **Advanced Topics in Counseling and Personnel Services; Developmental Psychopathology**

Credits: 3 Grading Method: Regular, Audit

0101	Hedwig Teglasi W 9:30am - 12:15pm	Seats (Total: 10) EDU 2101

EDCP789R **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

0101	Michelle Espino Contact instructor or department for details.	Seats (Total: 5)

EDCP789X **Advanced Topics in Counseling and Personnel Services; Lifespan Development**

Credits: 3 Grading Method: Regular, Audit

0101	Paul Gold Th 4:15pm - 7:00pm	Seats (Total: 20) EDU 3233

EDCP789Z **Advanced Topics in Counseling and Personnel Services**

Credits: 1-6 Grading Method: Regular, Audit

0101	Colleen O'Neal M 9:00am - 12:00pm	Seats (Total: 10) EDU 2101

EDCP798 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798A **Special Problems in Counseling and Personnel Services; Research Design and Proposal Writing Seminar**

Credits: 3 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

0101	Michelle Espino W 9:00am - 11:45am	Seats (Total: 15) EDU 3236

EDCP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP799A **Master's Thesis Research; Research Design and Proposal Writing Seminar**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Registration required to the extent of six hours for Master's thesis.

0101	Michelle Espino W 9:00am - 11:45am	Seats (Total: 10) EDU 3236

EDCP870 **Professional Issues Seminar**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDCP656 or EDCP870. Formerly: EDCP656.

Examination of issues that bear on professional issues such as ethics, inter-professional relationships and research.

0101	Marvin Titus	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 0220
	Only open to HESI Doctoral students.	

EDCP871 **Student Affairs Doctoral Capstone Seminar**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EDCP870; or permission of instructor. Restriction: Must be in the College Student Personnel program. Credit only granted for: EDCP789I or EDCP871. Formerly: EDCP789I.

Broadening perspectives on issues in student affairs and higher education by exploring the multiple roles and responsibilities of campus administrators and faculty members.

0101	Mary Hummel	Seats (Total: 10)
	W 2:00pm - 5:00pm	MIT 2113

EDCP888 **Apprenticeship in Counseling and Personnel Services**

(Perm req)

Credits: 1-8

Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

Credits: 3

Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	John Zacker	Seats (Total: 10)
	Contact instructor or department for details.	

0401	John Zacker Contact instructor or department for details.	Seats (Total: 15)
5101	Candace Moore Contact instructor or department for details.	Seats (Total: 5)

EDCP888C **Apprenticeship in Counseling and Personnel Services; School Psychology**

Credits: 1-8 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Hedwig Teglasi W 1:30pm - 3:45pm	Seats (Total: 15) Location: TBA
0201	Hedwig Teglasi Contact instructor or department for details.	Seats (Total: 15)

EDCP888G **Apprenticeship in Counseling and Personnel Services; School Counseling**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Jessica McKechnie M 7:00pm - 9:45pm	Seats (Total: 15) EDU 2102

EDCP889 **Internship in Counseling and Personnel Services; Internship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP889I **Internship in Counseling and Personnel Services; School Psychology**

Credits: 3 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

0101	Jill Jacobson	Seats (Total: 10)
	M 5:00pm - 7:30pm	Location: TBA

EDCP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Fall 2017

EDHD210 **Foundations of Early Childhood Education**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHS

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. The concept of developmentally appropriate practice and its application across different developmental levels and early childhood classrooms will be introduced and connected with discussion in EDHD220 and EDSP211. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g., poverty, immigrant status, English Language Learners), and the role of assessment in early learning.

0101	Elisa Klein	Seats (Total: 25)
	Th 1:00pm - 3:45pm	JMZ 0120

EDHD220 **Exploring Early Childhood General and Special Education**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Students who are considering a career in education will consider information about the teaching profession. Students reflect on their personal strengths, identify areas of growth, and examine their predisposition to work with young children with and without disabilities. They will discuss the nature of teaching, the moral and philosophic underpinnings that influenced their decision to enter into the teaching professions, as well as the roles and responsibilities of teachers and the characteristics and qualities for effective teachers (teaching styles and teacher's primary role in the classroom).

Intended primarily for students planning to apply to the Early Childhood Education Program. Allow an appropriate amount of time to travel from your on-campus class meetings to your off-campus experience.

0101	Mary Kitchen Tu 2:00pm - 4:00pm M 8:00am - 12:00pm	Seats (Total: 6) EDU 2102 Location: TBA	Lab
0102	Mary Kitchen Tu 2:00pm - 4:00pm Tu 8:00am - 12:00pm	Seats (Total: 7) EDU 2102 Location: TBA	Lab
0103	Mary Kitchen Tu 2:00pm - 4:00pm Th 8:00am - 12:00pm	Seats (Total: 7) EDU 2102 Location: TBA	Lab
0104	Mary Kitchen Tu 2:00pm - 4:00pm F 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab

EDHD230 **Human Development and Societal Institutions**

Credits: 3 | Grading Method: Regular, Audit | CORE: SB, D | General Education: DSHS, DVUP

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

0101	Jennie Lee-Kim TuTh 12:30pm - 1:45pm	Seats (Total: 40) EDU 2121

EDHD231 **Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

0101	Kevin Dunbar TuTh 9:30am - 10:45am	Seats (Total: 60) TWS 1310
0201	Kevin Dunbar TuTh 2:00pm - 3:15pm	Seats (Total: 60) BPS 1243

EDHD306 **Research Methods in Human Development**

Credits: 3 Grading Method: Regular General Education: FSAR

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

0101	Hongyang Zhao TuTh 9:30am - 10:45am	Seats (Total: 40) EDU 1121

EDHD314 **Reading in the Early Childhood Classroom**

Credits: 3 Grading Method: Regular

Prerequisite: EDHD210, EDHD220, and EDSP211. Corequisite: EDHD425; and corequisite: EDHD419 or EDSP420. Restriction: Must be enrolled in Professional Early Childhood/Early Childhood Special Education Program; and minimum cumulative GPA of 2.75.

Early childhood students introduced to current research/methods on teaching language arts. Focus on development of linguistic and cognitive processes in emergent literacy and beginning reading and writing. Application to models for the instruction and assessment of reading/writing in preschool-aged children. Also includes material on classroom-based interventions for young children at risk of reading failure due to learning difficulties. Includes Field Experiences.

Restricted to major code 0822P.

0101	Donald Bolger Th 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 35) EDU 3315

EDHD319 **Selected Topics in Human Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human development in relation to contemporary culture.

Contact department for information to register for this course.

EDHD320 **Human Development Through the Life Span**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

0101	Olga Walker Class time/details on ELMs *Restriction: Students in Human Development Minor with Program Code #ED05.*	Seats (Total: 40) ONLINE
0501	Susan Klauda Tu 4:15pm - 7:00pm *Restricted to pre-nursing students.*	Seats (Total: 40) EDU 3315

EDHD322 **The Young Child as Mathematician**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP 430, EDSP 433; OR Track 2: Must have completed EDHD415, EDHD 424. Corequisite: EDHD323, EDSP321, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.

Provides a theoretical and instructional framework for mathematics instruction in early childhood classrooms. Development of understanding of early childhood mathematics that emphasizes how and in what environment young children learn mathematics. Current thinking about both content and instructional strategies for mathematics curriculum, including identification and review of standards and expectations for learning outcomes for all children. Assessment strategies for evaluating all children will be addressed. Includes Phase 1 Field Experience.

Restricted to major code 0822P.

0101	Geetha Ramani W 2:00pm - 4:00pm Contact instructor or department for details.	Seats (Total: 37) EDU 2121

EDHD323 **Children Study their World**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430, EDSP433; or Track 2: Must have completed EDHD415, EDHD424. Corequisite: EDHD322, EDSP417, EDHD441, EDHD443, EDHD442, EDHD444, and EDSP321. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.

Provides theoretical and instructional framework for social studies instruction in inclusive early childhood classrooms. Course will reflect current thinking about content and instructional strategies for social studies curriculum; identification and review of standards/expectations for learning outcomes for all children; assessment strategies for evaluating of social studies objectives; use of data driven instruction to support all children; observation of children's understanding of their social world in field placements; opportunities to explore these understandings through interviews with children and the implementation of activities. Includes Phase 1 Field Experience.

Restricted to major code 0822P.

0101	Francine Marchese W 11:00am - 1:00pm Contact instructor or department for details.	Seats (Total: 37) EDU 2121

EDHD386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department; and junior standing or higher.

Contact department for information to register for this course.

EDHD402 **Social Development**

Credits: 3 Grading Method: Regular

Recommended: EDHD411.

Social Development. Critical concepts and ideas of the study of child and adolescent social development. Focus on changes in interpersonal relationships, emotions, achievement-related behavior and competence, and functioning within the broader social context.

0101	Jennie Lee-Kim M 1:00pm - 3:45pm	Seats (Total: 40) EDU 2119

EDHD411 **Child Growth and Development**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

0101	Jennie Lee-Kim M 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 40) EDU 3315 ONLINE
	Section 0101 should be restricted to 0808L, 0808P, 0802L, or 0802P.	

EDHD413 Adolescent Development

Credits: 3 | Grading Method: Regular | General Education: DSHS

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

0101	Jennie Lee-Kim TuTh 11:00am - 12:15pm	Seats (Total: 40) EDU 1107
	Restriction: Students in Human Development Minor with Program Code #ED05.	
0201	Ann Battle Tu 9:30am - 12:15pm	Seats (Total: 40) EDU 2119
	Section 0201 is restricted to major codes 0831L, 0831P, 0840L, 0840P, 0841L, 0841P, 0842L, 0842P, 0804L, 0804P	

EDHD420 Cognitive Development and Learning

Credits: 3 | Grading Method: Regular

Prerequisite: EDHD320, EDHD411, PSYC341, or PSYC355; or permission of EDUC-Human Development and Quantitative Methodology department.

Current developmental theories of cognitive processes such as language, memory, and intelligence and how differences in cognitive level (infancy through adolescence) mediate learning of educational subject matters.

0101	Richard Prather MW 11:00am - 12:15pm	Seats (Total: 40) EDU 2119

EDHD425 Language Development and Reading Acquisition

Credits: 3 | Grading Method: Regular, Audit

This course focuses on young children's language development and the relationship between language and reading acquisition. Students will learn: concepts central to language development; language achievements at different ages; concepts of emergent literacy; models of reading acquisition and skilled reading.

0101	Min Wang Tu 1:00pm - 3:45pm	Seats (Total: 35) EDU 1107
	Restricted to Early Childhood education majors, major code 0822P only.	
0201	Min Wang W 12:30pm - 3:15pm	Seats (Total: 40) EDU 2119

EDHD426 **Cognition and Motivation in Reading: Reading in Content Areas I**

Credits: 3 Grading Method: Regular

Students preparing for secondary teaching will learn about the cognitive and motivational aspects of literacy and learning from text for the content areas of literature, science, history and mathematics. Different evidenced-based literacy approaches appropriate for content learning are presented. Characteristics of learning environments that enable students to engage productively with diverse texts, disciplinary tasks, and technological resources in content areas are identified.

Restriction: Must be a Secondary Education major.

0101	Daphne Williams W 5:30pm - 8:15pm	Seats (Total: 40) EDU 3315

EDHD430 **Adolescent Violence**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Examines the roots of violence among adolescents and the extent to which this constitutes a problem in various settings. Research studies on its origins, prevention and intervention and implications for social policy are examined.

0101	Alice Donlan TuTh 2:00pm - 3:15pm	Seats (Total: 40) EDU 2119

EDHD441 **Data Driven Decision Making in EC/ECSE**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP433 or TRACK 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDSP417, EDHD442, EDHD443, and EDHD444.

Students will be exposed to formative (e.g., classroom based, ongoing) and summative (e.g., standardized testing) assessments. Students will collect and analyze formative assessment data from their internship classrooms as the bases of planning and delivering instruction to meet the diverse needs of all learners. They will also analyze standardized assessment data to gain an understanding of measures used to determined cross-school and cross-teacher effectiveness. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Christy Tirrell-Corbin	Seats (Total: 37)
	Meets October 16, 2017 - November 6, 2017	
	M 10:00am - 12:00pm	EDU 1121
	Contact instructor or department for details.	

EDHD442 Interventions for Children with Behavioral Challenges

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDSP321, EDSP417, EDHD322, EDHD323, EDHD441, EDHD443, and EDHD444.

Students will expand knowledge of and develop skills to address challenging behaviors in inclusive early childhood classrooms. Students examine the causes underlying challenging behaviors during the early childhood years, and identify appropriate resources and support services for working with families to develop a unified approach when responding to behavioral challenges. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Christy Tirrell-Corbin	Seats (Total: 37)
	Meets August 28, 2017 - October 2, 2017	
	M 10:00am - 12:00pm	EDU 1121
	Contact instructor or department for details.	

EDHD443 Interventions for Children with Social and Communication Challenges

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDHD322, EDSP321, EDSP417, EDHD323, EDHD441, EDHD442, and EDHD444.

Students will learn about the characteristics of children with autism spectrum disorder, pervasive developmental disorder, social communication disorder, and other related challenges and will be equipped to meet the needs of this group of children in the early childhood classroom. The utilization of Universal Design for Learning (UDL), Response to Intervention (RTI) and other early childhood special education approaches, as they apply to this specific group of children, will be addressed. Interventions designed to improve the functioning of children with autism spectrum disorders and related disorders will be reviewed. Includes Phase I field experience.

Restricted to major code 0822P.

0101	Jamell White	Seats (Total: 37)
	Meets November 13, 2017 - December 11, 2017	
	M 10:00am - 12:00pm Contact instructor or department for details.	EDU 1121

EDHD444 **Action Research in EC/ECSE**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDHD441, EDHD442, EDHD443, EDSP417, and EDSP321.

Students will become familiar with the EC/ECSE research process, literature and how teachers use action research to improve pedagogy and the experiences of children in classrooms or home-based contexts. Students will utilize this knowledge, as well as either a goal in an Individualized Education Plan (IEP) or Individualized Family Service Plan (IFSP) or School Improvement Plan (SIP), to develop an action research study commenced during the following semester. Includes Phase I field experience.

Restricted to major code 0822P. Class meets 9/18/17, 10/16/17, 11/6/17, 11/20/17, and 12/11/17.

0101	Judith Anderson	Seats (Total: 37)
	Meets September 9, 2017 - December 2, 2017	
	M 4:15pm - 6:15pm Contact instructor or department for details.	SQH 1103

EDHD460 **Educational Psychology**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Application of psychology to learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings.

0101	Yuting Sun	Seats (Total: 40)
	MW 11:00am - 12:15pm	ASY 3203

EDHD489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD498C **Special Problems in Education; Intervening in the Lives of Socially Anxious Children**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

0101	Kenneth Rubin	Seats (Total: 25)
	Contact instructor or department for details.	

EDHD600 **Introduction to Human Development and Child Study**

Credits: 3 Grading Method: Regular

An overview of the multidisciplinary, scientific principles which describe human development and behavior and an application of these principles in an analysis of a behavioral record. Techniques of observation, recording, and analysis of human behavior. Emphasis on critiquing and applying research findings.

Contact department for information to register for this course.

EDHD617 **Achievement Motivation in Adolescence**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHD779W or EDHD617. Formerly: EDHD779W.

Study of different aspects of motivation and how they develop in the secondary school years. Focus on how different instructional practices influence motivation and design of various strategies for improving students motivation.

Contact department for information to register for this course.

EDHD629 **Seminar for the Center for Children, Relationships, and Culture**

Credits: 1 Grading Method: Regular, Audit

A seminar and colloquia series featuring speakers from the department, the college, the university, and other universities and institutions from across the world that aims to cover issues pertaining to contemporary theory and research in human development.

0101	Lucas Butler	Seats (Total: 20)
	Meets August 28, 2017 - December 11, 2017	
	W 11:15am - 1:45pm	EDU 1107

EDHD662 **Research Methods in Education Settings**

Credits: 3 Grading Method: Regular, Audit

Research methods associated with studying the development, achievement, and school adjustment of children and adolescents in educational settings, with an emphasis on quantitative methodologies.

Contact department for information to register for this course.

EDHD690 **History and Systems in Human Development**

Credits: 3 Grading Method: Regular

History of the field of human development; philosophical basis of major theoretical paradigms and contemporary research drawn from foundational traditions.

0101	Melanie Killen	Seats (Total: 20)
	Th 1:00pm - 3:45pm	EDU 1108

EDHD692 **Cognitive Basis of Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Psychological and educational research literature on human cognition, especially as applied to learning and teaching in classroom settings.

Contact department for information to register for this course.

EDHD718 **Apprenticeship in College Teaching; Apprenticeship in College Teaching**

(Perm req)

Credits: 1 Grading Method: Regular

For graduate students teaching autonomously for the first, second, or third tiem at the University of Maryland, College Park; not intended for teaching assistants. This course provides graduate student teachers with a set of structured experiences that foster professional growth and development in the role of college instructor. Includes seminars on the scholarship of college teaching and principles of optimal college classroom environments, peer and faculty in-class observations of teaching, and guided reflective analysis of experience in the classroom.

0101	Ann Battle	Seats (Total: 10)
	F 1:00pm - 3:30pm	EDU 3233

EDHD720 **Social Development and Socialization Processes**

Credits: 3 Grading Method: Regular, Audit

This course covers social development and socialization processes acros the life-span. The course typically covers the following topics: parent-child relationships, peer relationships, moral development, social cognition, social competence, social motivation, self-regulation, and cultural influences on development. This is core doctoral course.

0101	Kenneth Rubin	Seats (Total: 20)
	Tu 1:00pm - 3:45pm	EDU 3236

EDHD721 **Cognitive Development and Learning: An Introduction**

Credits: 3 Grading Method: Regular, Audit

Introductory survey into contemporary theory and research in cognitive development; applications to classroom learning.

0101	Richard Prather	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 3236

EDHD789 **Internship in Human Development**

(Perm req)

Credits: 3-8

Grading Method: Regular, Audit

Internship experience in one or more human service agencies in the community.

Contact department for information to register for this course.

EDHD798 **Laboratory in Human Development**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Independent research supervised by an instructor in a research setting.

Limited to human development majors.

Contact department for information to register for this course.

EDHD799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular

Registration required to the extent of six hours for master's thesis.

Limited to human development majors.

Contact department for information to register for this course.

EDHD820 **Advanced Topics in Social Development**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EDHD720; or permission of EDUC-Human Development and Quantitative Methodology department. Credit only granted for: EDHD820 or EDHD821. Formerly: EDHD821.

Advanced doctoral seminar on socialization and social development with consideration of selected topics. Identification of research problems and areas of application.

0101	Melanie Killen	Seats (Total: 20)
	Tu 1:00pm - 3:45pm	EDU 1108

EDHD888 **Apprenticeship in Human Development Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 **Practicum in Human Development**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Field experience in applied human development at a professional level o competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to 12-18 hours for a Ph.D. dissertation.

Limited to human development majors.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed Fall 2017

EDHI338B **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Race, Socioeconomic Status, and Size & Appearance**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Jacqueline Pearce Garrett, Kevin Webb, Roger Worthington, Michelle Strange, Jeremy Gombin-Sperling, Benjamin Parks, Peter DeCrescenzo, Tiffany Harris **Meets August 30, 2017 - October 11, 2017** W 6:30pm - 8:30pm	Seats (Total: 42) MMH 2411

EDHI338E **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Gender, Sexuality, and Size & Appearance**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Benjamin Beltran, Ron Padron, Michelle Strange, Jeremy Gombin-Sperling, Benjamin Parks, Jacqueline Pearce Garrett, Erin McClure, Roger Worthington **Meets October 18, 2017 - December 6, 2017** W 6:30pm - 8:30pm	Seats (Total: 42) MMH 2411

EDHI338U **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; U.S. Identity in a Global Context**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

For students who have studied abroad,plan to study abroad,and/or have other international experience/identities. Please email Jeremy Jeremy Gombin-Sperling at jgombins@umd.edu if interested in the course.

0201	Jeremy Gombin-Sperling, Krista Uhrig, Roger Worthington **Meets October 23, 2017 - December 4, 2017** M 5:30pm - 7:30pm	Seats (Total: 14) MMH 2411B

EDHI488E **Special Topics in Education Policy and Administration; Ecological Ethics and Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1315

EDHI489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHI605 **Comparative Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI605, EDPL605, or EDPS605. Formerly: EDPL605.

Analyzes and compares leading issues in education in various countries of the world, particularly as they relate to crucial problems in American education.

0101	Nelly Stromquist	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2101

EDHI606 **Political Economy of Education in a Global Context**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI606, EDPL606, or EDPS606. Formerly: EDPL606.

Examination of alternative economics perspectives and their implication for education policy and practice internationally, from local to global levels. The connection of education to issues of development, inequality, poverty, gender, and race will be discussed.

0101	Steven Klees	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2102

EDHI640 **Introduction to Educational Leadership**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI640, EDPL640, or EDPS640. Formerly: EDPL640.

The focus of this course is the analysis of the role of education administrators/leaders in the social, political, and legal contexts of schools. Also examines the role of leadership in school improvement.

Contact department for information to register for this course.

EDHI645 **Leading Instructional Improvement**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI645, EDPL645, or EDPS645. Formerly: EDPL645.

Development of knowledge and skills in the use of data bases, research findings and models of supervision, to improve instruction in schools.

Contact department for information to register for this course.

EDHI650 **Professional Seminar in Higher and Adult Education**

Credits: 3 Grading Method: Sat-Fail

Credit only granted for: EDHI650, EDPL650, or EDPS650. Formerly: EDPL650.

Introduction to higher and adult education as a field of study. Origins current dimensions and problems, and emerging issues. Field trips to state and national capitols, and involvement in professional conferences.

0101	Sharon Fries-Britt	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 2102

EDHI652 **Higher Education in American Society**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI652, EDPL652, or EDPS652. Formerly: EDPL652.

Examines the concepts of academic freedom, corporate autonomy and institutional accountability with emphasis on twentieth century relationships between higher education and government in the United States.

0101	Alberto Cabrera	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 2101

EDHI660 **Retention Theories and the Impact of College**

Credits: 3 Grading Method: Regular

Credit only granted for: EDHI660, EDPL660, or EDPS660. Formerly: EDPL660.

An introduction to retention theories an the college impact literature. The primary focus will be to examine the disciplinary and philosophical frameworks that have informed the development of leading theories and policies.

0101	Sharon Fries-Britt	Seats (Total: 15)
	Tu 4:15pm - 7:00pm	EDU 3233

EDHI664 **The College Experience**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor. And must be in a major within EDUC-Counseling, Higher Education and Special Education department; or must be in a major within EDUC-Education Policy and Leadership department; or must be in a major within EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDHI664, EDPL664, or EDPS664. Formerly: EDPL664.

Designed to provide students with an overview of the research and scholarship on two of the major stakeholders in higher education -- students and faculty. Examines the educational experiences of college students in and out of the classroom in higher education in the United States by focusing on what students learn and the different collegiate experiences that influence their learning.

0101	Alberto Cabrera	Seats (Total: 15)
	W 4:15pm - 7:00pm	EDU 1121

EDHI672 **Modes of Inquiry in Education Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI672, EDPL672, or EDPS672. Formerly: EDPL672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

0101	Steven Klees	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 1121

EDHI679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI682 **Ecological Ethics and Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI682 or EDHI788E. Formerly: EDHI788E.

An exploration of the paradigms, approaches, and ways of knowing offere through ecological ethics and environmental sustainability education.

0101	Jing Lin	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1315

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI702 **Advanced Seminar in Research Methods for Education Leaders**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDHI672 and EDUC701. Credit only granted for: EDHI702, EDPL702, or EDPS702. Formerly: EDPL702.

Emphasizes the application of quantitative and qualitative research methodologies to investigate a range of issues relevant to education leaders, including educational equity, efficiency, and effectiveness. Students enroll in either the qualitative or quantitative section of the course, depending on their methodological preference.

Contact department for information to register for this course.

EDHI713 **Non-Formal Education**

Credits: 3 Grading Method: Regular, Audit

Recommended: EDHI605. Credit only granted for: EDHI707, EDHI713 or EDHI788N. Formerly: EDHI788N.

An examination of forms of education outside the formal education system--known generally as nonformal (NFE) education and including popular education--to identify how these forms can assist marginalized populations in both Third World and industrialized countries to improve their quality of life and undertake collective action for social advancement.

0101	Nelly Stromquist	Seats (Total: 20)
	Tu 7:00pm - 9:45pm	EDU 3233

EDHI750 **International Higher Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI750, EDPL750, or EDPS750. Formerly: EDPL750.

Comparison of higher education systems in several countries, and of the problems and issues in higher education faced by these countries.

0101	Jing Lin	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 1315

EDHI760 **The Human Dimension in Administration**

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDHI760, EDPL760, or EDPS760. Formerly: EDPL760.

Theory, research findings, and laboratory experiences in human skills in organizations.

Contact department for information to register for this course.

EDHI767 **Seminar on School District Leadership**

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDHI767, EDPL767, or EDPS767. Formerly: EDPL767.

Examination of theory and research related to school district leadership. Focus on integration of organizational, political, community, instructional and ethical aspects of educational leadership.

Contact department for information to register for this course.

EDHI788M **Special Topics in Education Policy and Administration; Systems Innovation**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788Y **Special Topics in Education Policy and Administration; State-Level Higher Education Research**

Credits: 1-3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

This course instructs students on how to conduct state- and national-level higher education policy research using panel data and quantitative techniques.

0101	Marvin Titus	Seats (Total: 15)
	Tu 7:00pm - 9:45pm	EDU 1107

EDHI789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDHI798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Sharon Fries-Britt Contact instructor or department for details.	Seats (Total: 5)
3301	Nelly Stromquist Contact instructor or department for details.	Seats (Total: 10)
3501	Alberto Cabrera Contact instructor or department for details.	Seats (Total: 5)

EDHI889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation — Fall 2017

EDMS451 **Introduction to Educational Statistics**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSAR

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

0101	Gregory Hancock	Seats (Total: 200)
	TuTh 2:00pm - 3:15pm	BRB 1101

EDMS610 **Classroom Assessment and Evaluation**

Credits: 3 | Grading Method: Regular, Audit

Develop the understandings and skills needed to validly, reliably, and accurately assess student learning and to provide focused leadership in the area of classroom assessment.

Contact department for information to register for this course.

EDMS623 **Applied Measurement: Issues and Practices**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: EDMS410. And EDMS645; or students who have taken courses with comparable content may contact the department.

Measurement theory and its application at an intermediate level; test development, validation and interpretation; issues and recent developments in measurement.

0101	Ji Seung Yang	Seats (Total: 25)
	Th 4:15pm - 7:00pm	ASY 3219

EDMS645 **Quantitative Research Methods I**

Credits: 3 | Grading Method: Regular, Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

0101	Tracy Sweet	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HJP 2242

EDMS646 **General Linear Models I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS645; or an equivalent introductory statistics course.

A first post-introductory inferential statistics course, with emphasis on analysis of variance procedures and designs from within the general linear modeling framework. Assignments include student analysis of education and related data; application of statistical software packages is emphasized.

0101	Yang Liu	Seats (Total: 30)
	Tu 4:15pm - 7:00pm	ASY 3219

EDMS651 **General Linear Models II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS646; or students who have taken courses with comparable content may contact the department.

Multiple regression and correlation analysis; trend analysis; hierarchical and stepwise procedures; logistic regression; software for regression analysis.

0101	Ji Seung Yang	Seats (Total: 30)
	W 4:15pm - 7:00pm	EDU 0220

EDMS655 **Introduction to Multilevel Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS651; or students who have taken courses with comparable content may contact the department.

Introduction to multilevel models and methodology as strategies for modeling change and organizational effects.

0101	Laura Stapleton	Seats (Total: 25)
	W 4:15pm - 7:00pm	EDU 3233

EDMS657 **Exploratory Latent and Composite Variable Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS651.

Development of models for exploratory factor analysis and their practical applications. Additional topics will draw from latent class analysis, cluster analysis, mixture models, canonical correlation, multidimensional scaling, and configural frequency analysis.

0101	Gregory Hancock	Seats (Total: 30)
	Tu 4:15pm - 7:00pm	EDU 0220

EDMS738E **Seminar in Special Problems in Measurement; Psychometrics in Large Scale Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

0101	Hong Jiao	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 1121

EDMS738G **Seminar in Special Problems in Measurement; Assessment and Evaluation for School Leaders: Part II**

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

Contact department for information to register for this course.

EDMS769M **Special Topics in Applied Statistics in Education; Social Network Models**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Designed primarily for students majoring or minoring in measurement, statistics or evaluation.

0101	Tracy Sweet	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 1315

EDMS798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Prerequisite: permission of department.

Contact department for information to register for this course.

EDMS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 **Internship in Measurement and Statistics**

Credits: 3-8 Grading Method: Regular, Audit

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDMS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDPS Education Policy Studies Fall 2017

EDPS210 **Historical and Philosophical Perspectives on Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Credit only granted for: EDPL210 or EDPS210. Formerly: EDPL210.

An examination of illustrative historical and philosophical examples of the interplay of ideas and events in the shaping of educational aims and practices from ancient cultures to modern technological societies.

0101	Erin Janulis TuTh 12:30pm - 1:45pm	Seats (Total: 30) EDU 2119
0201	Joel Miller TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 3315
0301	Lisa Eaker TuTh 11:00am - 12:15pm	Seats (Total: 30) EDU 3315

EDPS301 **Foundations of Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Credit only granted for: EDPL301 or EDPS301. Formerly: EDPL301.

Social context of education and conflicts over philosophies, values, an goals that are reflected in educational institutions in our pluralistic society. Helps teachers become reflective, critical thinkers about the social and philosophical issues they face and the choices they make.

0101	Jason Mayernick TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 3233
0201	Jason Mayernick TuTh 11:00am - 12:15pm	Seats (Total: 30) ASY 3207
0301	Joel Miller TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 2120
0401	Kevin Shindel W 4:15pm - 7:00pm	Seats (Total: 30) JMZ 1122
0501	Lisa Eaker M 10:00am - 12:45pm	Seats (Total: 28) EDU 1315

EDPS489 **Field Experiences in Education**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDPS498 **Special Problems in Education**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDPS615 **Economics of Education**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDHI615, EDPL615, or EDPS625. Formerly: EDPL615.

An introduction to the application of economic principles to the study of education policy. The course content revolves around issues of efficiency, equity, and freedom of choice. Specific attention is devoted to school finance litigation and reform, practices for raising and allocating resources, and education productivity issues.

0101	David Blazar	Seats (Total: 20)
	W 1:00pm - 3:45pm	SYM 0215

EDPS620 **Education Policy Analysis**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDHI620, EDPL620, or EDPS620. Formerly: EDPL620.

Policy making in education from planning to evaluation with emphasis on the identification of policy problems and the resources available to analysts through multi-disciplinary approaches. An introductory experience with education policy analysis.

0101	Betty Malen	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 1107

EDPS679 **Master's Seminar**

Credits: 3

Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDPS703 **Quantitative Applicaltions for Education Policy Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EDMS645; or students who have taken courses with comparable content may contact the department. Recommended: EDMS646; or EDMS651. Or EDMS646; and EDMS651. Credit only granted for: EDHI703, EDPL703, EDPL788U, or EDPS703. Formerly: EDPL703.

Students use quantitative applications and secondary datasets to investigate social problems and education policies. Emphasis on the use of quasi-experimental designs and regression techniques to frame education issues, analyze, and recommend policies.

0101	Claudia Galindo	Seats (Total: 20)
	Th 4:15pm - 7:00pm	JMZ 0118

EDPS735 **Phenomenological Inquiry I**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EDHI735, EDPL735, or EDPS735. Formerly: EDPL735.

Philosophic grounding for phenomenological inquiry at a beginning level Guided writing practice in doing phenomenological inquiry is provided on a selected lived experience phenomenon.

0101	Francine Hultgren	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 3315

EDPS751 **Law, Equity, and Diversity in Education**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EDHI651 or EDHI671; or permission of instructor. Credit only granted for: EDHI751, EDPL751, or EDPS751. Formerly: EDPL751.

An examination of 'dilemmas of difference' on selected issues that arise at the intersection of law and education policy. Dilemmas and value conflicts imbedded in modern federal and state case law dealing with race, gender, sexual orientation, religion and disability.

0101	Ethan Hutt	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 3236

EDPS788P **Special Topics in Education Policy and Administration; Core I**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Betty Malen	Seats (Total: 25)
	Th 4:15pm - 7:00pm	EDU 1107

EDPS788V **Special Topics in Education Policy and Administration; History of Curriculum**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Campbell Scribner	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 2102

EDPS789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDPS798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDPS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDPS888 **Apprenticeship in Education**

Credits: 1-3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Dennis Herschbach Contact instructor or department for details.	Seats (Total: 10)
0201	Pam Splaine Contact instructor or department for details.	Seats (Total: 10)
0301	Robert Croninger Contact instructor or department for details.	Seats (Total: 5)

EDPS889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDPS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDPS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDSP Education, Special Fall 2017

EDSP210 **Introduction to Special Education**

Credits: 3 | Grading Method: Regular, Audit | General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210 or EDSP470.

Characteristics and needs of individuals receiving special education an related services. Current issues and practices in special education.

0101	Yewon Lee MW 2:00pm - 3:15pm	Seats (Total: 40) SQH 1117
0301	Yewon Lee MW 12:30pm - 1:45pm	Seats (Total: 40) SQH 1119

EDSP211 **Introduction to Special Education**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVUP

Restriction: Sophomore standing or lower; and permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP210 or EDSP470.

An introduction to the field of special education. Students examine historical foundations, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals. In addition, students are introduced to the nature and characteristics of various disabilities and review current issues in the field including overrepresentation of minority students in special education, inclusion, and federal and state assessment mandates. Current topics are addressed including evidence-based practices, universal design for learning, and individualization and differentiation of instruction..

0101	Joan Lieber M 1:00pm - 3:45pm	Seats (Total: 25) EDU 1315

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 | Grading Method: Regular | General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

0101	Carolyn Fink	Seats (Total: 28)	
	W 9:30am - 10:45am	EDU 3233	
	M 9:30am - 10:45am	EDU 3233	Lab

EDSP289I **Disability: From Stigma and Sideshow to Mainstream and Main Street**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP, SCIS

0101	Peter Leone	Seats (Total: 20)	
	Tu 12:30pm - 1:45pm	SQH 1119	
	Th 12:30pm - 1:45pm	EDU 1121	Discussion
0102	Peter Leone	Seats (Total: 20)	
	Tu 12:30pm - 1:45pm	SQH 1119	
	Th 12:30pm - 1:45pm	EDU 2101	Discussion
0103	Peter Leone	Seats (Total: 20)	
	Tu 12:30pm - 1:45pm	SQH 1119	
	Th 12:30pm - 1:45pm	EDU 3233	Discussion

EDSP321 **The Young Child As Scientist**

Credits: 3 | Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444.

A theoretical and pedagogical framework for evidence-based inclusive science instruction in inclusive early childhood classrooms. Examination of principles of inquiry-based science learning and develop strategies for helping children acquire fundamental problem-solving skills that may be applied to understanding a wide array of science content. Assessment strategies for evaluating the achievement of science objectives, and the achievement for all children will be addressed. Includes field experience.

0101	Joan Lieber	Seats (Total: 36)	
	W 8:30am - 11:00am	EDU 1107	

EDSP376 **Fundamentals of Sign Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

0101	Michael Dunham	Seats (Total: 30)
	MW 5:00pm - 6:15pm	TYD 0111

EDSP400 **Instruction of Students with Severe Disabilities I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP602. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities.

0101	Frances Kohl	Seats (Total: 40)
	W 4:15pm - 6:15pm	EDU 1107
	Tu 9:00am - 11:00am	Location: TBA Lab

EDSP404 **Education of Students with Autism Spectrum Disorders**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for students with autism spectrum disorders.

0101	Gulnoza Yakubova	Seats (Total: 40)
	W 4:15pm - 7:00pm	SQH 1117

EDSP411 **Universal Design for Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP210 or EDSP470. Restriction: Must be in Special Education program.

Universal Design for Learning addresses a foundation framework for teacher candidates to learn how to design and implement instruction for a broad range of students with diverse needs rather than rely exclusively on accommodations to instruction for some students.

0101	Gulnoza Yakubova	Seats (Total: 28)
	Th 1:15pm - 4:00pm	EDU 3236

EDSP413 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP613. Credit only granted for: EDSP413, or EDSP613.

Use of applied behavior analysis for assessment of behavior and learnin environments. Design of behavior and classroom management of students in special education.

0101	Kelli Cummings	Seats (Total: 40)
	Tu 4:15pm - 7:00pm	EDU 2119

EDSP417 **Reading Diagnosis and Assessment**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDHD441, EDHD442, EDHD443, and EDHD444.

Reading Diagnosis and Assessment prepares teacher candidates to assess children in general and special early childhood educations settings in the areas of reading and writing in order to plan for instruction. The course will focus on diagnostic, screening, progress monitoring, and outcome assessments in early and beginning literacy. The course is designed to provide participants with the knowledge and skills necessary to collect and use a wide range of assessment data in general education and special education settings. Includes field experience.

0101	Cindy Sherman	Seats (Total: 36)
	M 1:00pm - 3:45pm	EDU 1121

EDSP420 **Child Development, Birth to Three Years**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDHD210 and EDHD220. Corequisite: EDHD425 and EDHD314. Restriction: Must be in Special Education program. Also offered as: EDHD434. Credit only granted for: EDHD419A, EDSP420 or EDHD434.

Child development theory and research, as well as knowledge about typical and atypical development of children from birth to three years of age. The course emphasizes learning for children with and without disabilities, and for children who are at risk due to poverty and other environmental factors. The course will introduce how children develop and the challenges they face within the domains of physical, cognitive, language, social, and emotional development, with particular attention paid to the impact of risk factors on development. Students will become familiar with delays and differences in development that may occur as the result of disability. Finally, students will learn the effects of cultural and linguistic differences on growth and development. Information about theory and research in child development for children with and without disabilities will be enhanced through a series of observational experiences, which will build upon concepts addressed during class. Includes field experiences.

0101	Paula Beckman	Seats (Total: 36)
	Th 4:15pm - 7:00pm	EDU 2119

EDSP443 **Language and Literacy Acquisition in Children with Disabilities**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education program. Additional information: This course is the first of four reading courses required by the Maryland State Department of Education for teacher certification in Special Education.

Language and literacy acquisition and characteristics of typical and atypical language development in supporting students with reading and writing disabilities.

0101	Nicole Abera	Seats (Total: 40)
	W 1:15pm - 4:00pm	EDU 1121

EDSP451 **Curriculum and Instruction: Elementary/Middle Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

0101	Sarah Mallory	Seats (Total: 40)	
	M 1:15pm - 3:15pm Th 9:00am - 11:00am	EDU 1107 Location: TBA	Lab

EDSP452 **Internship I: Elementary/Middle Special Education**

Credits: 2-4 | Grading Method: Regular, Audit | General Education: DSSP

Restriction: Must be in Special Education program. Also offered as: EDSP692. Credit only granted for: EDSP452 or EDSP692.

Field experience in elementary/middle school special education.

0101	Stacey Williams F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	Seats (Total: 20) EDU 3315 Location: TBA	 Lab

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EDSP470 **Introduction to Special Education**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit | General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

0101	Yewon Lee MW 2:00pm - 3:15pm	Seats (Total: 10) SQH 1117
0301	Yewon Lee MW 12:30pm - 1:45pm	Seats (Total: 7) SQH 1119

EDSP484 **Reading and Writing Instruction in Special Education II**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: EDSP416. Restriction: Must be in Special Education program. Also offered as: EDSP684. Credit only granted for: EDSP484 or EDSP684.

Focus on the development of reading and writing programs for students in special education. Builds on foundations established in EDSP416.

0101	Patricia Smith Tu 1:15pm - 4:00pm	Seats (Total: 40) ESJ 2309

EDSP487 **Family Partnerships in Special Education**

Credits: 3 | Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP687. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Wanda Pittman-Gregory	Seats (Total: 40)
	M 4:15pm - 7:00pm	EDU 1121

EDSP498 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

Special education majors only.

Contact department for information to register for this course.

EDSP498B **Special Problems in Special Education; Career Development and Advising**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

0101	Jessica Chew, Matthew Sinclair	Seats (Total: 15)
	F 2:10pm - 3:00pm	EDU 1121
	Contact instructor or department for details.	

EDSP499 **Workshops, Clinics, and Institutes in Special Education**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the special education department (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing. Laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups such as school superintendents, principals and supervisors.

0901	Peter Leone	Seats (Total: 5)
	Contact instructor or department for details.	

EDSP499F **Workshops, Clinics, and Institutes in Special Education; Teaching Children with Disabilities in Elementary Classrooms**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the special education department (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing. Laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups such as school superintendents, principals and supervisors.

Must be an Elementary Education major with a minimum cumulative GPA of 2.75.

0101	Susan De La Paz M 4:15pm - 5:30pm Th 11:00am - 12:15pm	Seats (Total: 30) TWS 0310 ESJ 1309	Discussion
0102	Susan De La Paz M 4:15pm - 5:30pm Tu 11:00am - 12:15pm	Seats (Total: 30) TWS 0310 ESJ 1309	Discussion
0103	Susan De La Paz M 4:15pm - 5:30pm W 10:00am - 11:15am	Seats (Total: 30) TWS 0310 ESJ 1309	Discussion

EDSP600 **Issues and Trends in Educating Individuals with Disabilities**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: 9 credits in EDSP courses. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Examines research and practice relevant to the education of individuals with disabilities.

0101	Debra Neubert Tu 4:15pm - 7:00pm	Seats (Total: 25) ASY 3215

EDSP602 **Instruction of Students with Severe Disabilities I**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities.

0101	Frances Kohl	Seats (Total: 40)	
	W 4:15pm - 6:15pm Tu 9:00am - 11:00am	EDU 1107 Location: TBA	Lab

EDSP604 **Education of Students with Autism Spectrum Disorder**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604, EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for student diagnosed as autistic or having a pervasive development disorder.

0101	Gulnoza Yakubova	Seats (Total: 40)
	W 4:15pm - 7:00pm	SQH 1117

EDSP613 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Also offered as: EDSP413. Credit only granted for: EDSP413 or EDSP613.

Applied behavior analysis for assessment of behavior and learning environments. Behavior and classroom management strategies for students in special education.

0101	Kelli Cummings	Seats (Total: 40)
	Tu 4:15pm - 7:00pm	EDU 2119

EDSP625 **Seminar on Severely Handicapping Conditions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Research and theories relevant to the education of severely handicapped individuals.

0101	Frances Kohl	Seats (Total: 15)
	M 4:15pm - 7:00pm	Location: TBA

EDSP652 **Curriculum and Instruction: Elementary Special Education**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP652, EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

For EDSP majors only.

0101	Sarah Mallory M 1:15pm - 3:15pm Th 9:00am - 11:00am	Seats (Total: 40) EDU 1107 Location: TBA	Lab

EDSP671 **Qualitative Methodologies in Special Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Design and evaluation of qualitative research in special education across disabilities and ages.

0101	Paula Beckman W 4:15pm - 7:00pm	Seats (Total: 15) EDU 2101

EDSP684 **Reading and Writing Instruction in Special Education II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP616. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP484. Credit only granted for: EDSP484 or EDSP684.

Development of effective reading and writing programs for students receiving special education services. Builds on the foundation established in EDSP 616.

0101	Patricia Smith Tu 1:15pm - 4:00pm	Seats (Total: 40) ESJ 2309

EDSP687 **Family Partnerships in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP487. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Wanda Pittman-Gregory	Seats (Total: 40)
	M 4:15pm - 7:00pm	EDU 1121

EDSP692 **Graduate Internship I: Elementary/Middle Special Education**

Credits: 2-4 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP452 or EDSP692.

Field experience in elementary/middle school special education.

0101	Stacey Williams	Seats (Total: 5)
	F 10:30am - 12:00pm	EDU 3315
	MTuWTh 8:00am - 1:00pm	Location: TBA Lab

EDSP798 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Special education majors only.

Contact department for information to register for this course.

EDSP798E **Special Problems in Special Education; Families Course Project**

Credits: 1 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Special education majors only.

Contact department for information to register for this course.

EDSP888 **Apprenticeship in Special Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Credits: 3 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888I **Apprenticeship in Special Education; Intervention Research in Language and Literacy**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

0101	Jade Wexler	Seats (Total: 5)
	W 1:15pm - 4:00pm	SQH 2113

EDSP888R **Apprenticeship in Special Education; Special Education Research Pro-Seminar**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

0101	Ana Taboada Barber	Seats (Total: 6)
	M 4:15pm - 7:00pm	EDU 1220

EDSP889 **Internship in Special Education**

(Perm req)

Credits: 3-8

Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Special education majors only.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Special education majors only.

Contact department for information to register for this course.

EDUC Education Fall 2017

EDUC388 **Special Topics in Education; Guided Experience In College Teaching**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0202	Chelsea Truesdell, Maya Dawit TBA Contact instructor or department for details. *Restricted to students who are teaching UNIV100 or UNIV101.*	Seats (Total: 20) COL 1102
0401	Sharon Vanwright Contact instructor or department for details. Contact instructor or department for details. *Relates to the academic achievement program and should be taken concurrently with EDCI498, section 6601.*	Seats (Total: 20)

0501	Alicia Thomas, Stacy Woycheck Tu 5:00pm - 6:30pm Contact instructor or department for details.	Seats (Total: 20) SYM 1110
	Relates to the standard UTA program and is restricted to Life Science students only.	
SG91	Tirza Bartels, Mary Gallagher W 3:30pm - 5:00pm Contact instructor or department for details.	Seats (Total: 12) Location: TBA
	Restricted to students in the Guided Study Sessions (GSS program at the Universities at Shady Grove). Prerequisite: Permission of the Associate Director of the Center for Academic Success (CAS) at USG.	

EDUC388E **Special Topics in Education; Controversial Issues in Education Reform**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	John King M 7:00pm - 9:45pm	Seats (Total: 30) TWS 1320

EDUC388T **Special Topics in Education; Guided Experience in College Teaching - UTA**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	Jessica Haddaway M 5:00pm - 7:00pm Class time/details on ELMs	Seats (Total: 30) JMZ 0205 ONLINE Discussion

EDUC498 **Selected Topics in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular

Current topics and issues in education.

0101	Jessica Haddaway Contact instructor or department for details.	Seats (Total: 30)

EDUC703 **Conducting Library Research for Dissertations**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education.

This course is designed to provide students in the Ed.D.doctoral program with the skills necessary to conduct library research in preparation for developing the literature review for the Dissertation in Practice.

Contact department for information to register for this course.

EDUC704 **Introduction to Writing the Dissertation in Practice**

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education.

This course is designed to provide students in the Ed.D. program with specific strategies and skills needed to complete their Dissertation of Practice. Skills include constructing a problem statement and developing a cohesive argument for a proposed solution.

Contact department for information to register for this course.

EDUC760 **The Human Dimension in Administration**

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC760 or EDHI760. Formerly: EDHI760.

Course focuses on theory, research findings, and current practices in managing human resources in educational organizations. Issues related to performance evaluations, professional development, and legal and ethical standards are addressed.

Contact department for information to register for this course.

EDUC767 **Seminar on School District Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC767 or EDHI767. Formerly: EDHI767.

Examination of theory and research related to school district leadership with focus on improvement sciences. Course uses improvement science model to understand organizational, political, community, instructional problems of practice.

Contact department for information to register for this course.

EDUC888 **Applied Apprenticeship in Education**

Credits: 1-3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888E **Applied Apprenticeship in Education; Improvement Science**

Credits: 1 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888L **Applied Apprenticeship in Education; Introduction to Library Research**

Credits: 2 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888W **Applied Apprenticeship in Education; Introduction to Scholarly Writing**

Credits: 2 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC898 **Pre-Candidacy Research**

Credits: 2-4 Grading Method: Regular

Pre-Candidacy Research

Contact department for information to register for this course.

EDUC899 **Dissertation of Practice Research**

Credits: 1-6 Grading Method: Regular, Audit

Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.

PGCPS II EdD Outreach Program. Registration restricted to program

Contact department for information to register for this course.

ENAE Engineering, Aerospace Fall 2017

ENAE100 **The Aerospace Engineering Profession**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: ENES100 and MATH140.

Overview of salient aspects of professional practice of Aerospace Engineering. Introduction to the range of technical expertise needed to succeed in the profession and the objectives of the various parts of the Aerospace Engineering program at UMCP in supporting students' efforts in gaining the required knowledge and skills. Familiarization with departmental faculty and their areas of research, creation of links with other students, professional society student chapters, and available resources. Discussion of ethical issues, business requirements, and their interactions with technical developments.

0101	Norman Wereley Tu 12:30pm - 1:45pm	Seats (Total: 140) EGR 1202	

ENAE202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Aerospace Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0101	Johan Larsson MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 42) JMP 3201 KEB 2111	 Lab
0102	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 42) JMP 3201 KEB 2111	 Lab
0103	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 29) JMP 3201 EGR 0312	 Lab

ENAE283 **Introduction to Aerospace Systems**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Mary Bowden	Seats (Total: 110)	
	TuTh 9:30am - 10:45am	CHE 2110	

ENAE283H **Introduction to Aerospace Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Alison Flatau	Seats (Total: 22)	
	TuTh 9:30am - 10:45am	PLS 1168	

ENAE301 **Dynamics of Aerospace Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENAE202, ENES102, and MATH241. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Kinematics and dynamics of three dimensional motion of point masses and rigid bodies with introduction to more general systems. Primary emphasis on Newtonian methods. Practice in numerical solutions and computer animation of equations of motion using MATLAB.

0101	Derek Paley	Seats (Total: 29)	
	TuTh 12:30pm - 1:45pm	ESJ 2208	
	F 1:00pm - 1:50pm	EGR 0312	Lab

0102	Derek Paley TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 29) ESJ 2208 EGR 0312	 Lab
0103	Derek Paley TuTh 12:30pm - 1:45pm F 3:00pm - 3:50pm	Seats (Total: 33) ESJ 2208 KEB 2111	 Lab
0104	Derek Paley TuTh 12:30pm - 1:45pm F 4:00pm - 4:50pm	Seats (Total: 34) ESJ 2208 KEB 2111	 Lab

ENAE311 **Aerodynamics I**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Christopher Cadou TuTh 9:30am - 10:45am	Seats (Total: 105) Location: TBA

ENAE311H **Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Stuart Laurence TuTh 9:30am - 10:45am	Seats (Total: 30) ITV 1111

ENAE362 **Aerospace Instrumentation and Experimentation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246 and ENAE283. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Basic instrumentation electronics including DC electronics, AC electronics, semiconductors, electro-optics and digital electronics. Sensing devices used to carry out experiments in Aerospace Engineering includes metrology, machine tool measurements, bridge circuits, optical devices, and introduction to computer based data acquisition. Topics chosen to support measurements in aerodynamics, flight structures and flight control.

0101	Allen Winkelmann MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 24) CHM 1402 EGL 0123	 Lab
0102	Allen Winkelmann MW 1:00pm - 1:50pm Tu 2:00pm - 5:00pm	Seats (Total: 24) CHM 1402 EGL 0123	 Lab
0103	Allen Winkelmann MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 24) CHM 1402 EGL 0123	 Lab
0104	Allen Winkelmann MW 1:00pm - 1:50pm Th 2:00pm - 5:00pm	Seats (Total: 24) CHM 1402 EGL 0123	 Lab
0105	Allen Winkelmann MW 1:00pm - 1:50pm W 9:00am - 12:00pm	Seats (Total: 26) CHM 1402 EGL 0123	 Lab

ENAE380 **Flight Software Systems**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE283 and ENAE202. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Avionics using advanced sensor and computing technologies are at the heart of every modern Aerospace vehicle. Advanced software systems to improve cockpit safety and enable unmanned and deep-space missions. Object-oriented programming and software engineering concepts required to design and build complex flight software systems. Software validation, verification and real-time performance analysis to assess flight software system reliability and robustness. Human-machine interface design for piloted systems. Automatic onboard data acquisition and decision-making for unmanned air and space vehicles.

Three hours of lecture and two hours of laboratory per week. Prerequisite: ENAE202 and ENAE283. Junior standing. For ENAE majors only.

0101	Anthony Banes MW 12:00pm - 12:50pm F 9:00am - 10:50am	Seats (Total: 20) PHY 1201 EGR 0312	 Lab
0102	Anthony Banes MW 12:00pm - 12:50pm F 11:00am - 12:50pm	Seats (Total: 20) PHY 1201 EGR 0312	 Lab
0103	Anthony Banes MW 12:00pm - 12:50pm F 1:00pm - 2:50pm	Seats (Total: 20) PHY 1201 KEB 2107	 Lab
0201	Huan Xu MW 12:00pm - 12:50pm M 9:00am - 10:50am	Seats (Total: 20) SPH 1301 EGR 0312	 Lab
0202	Huan Xu MW 12:00pm - 12:50pm Tu 2:00pm - 3:50pm	Seats (Total: 20) SPH 1301 EGR 0312	 Lab
0203	Huan Xu MW 12:00pm - 12:50pm M 2:00pm - 3:50pm	Seats (Total: 20) SPH 1301 EGR 0312	 Lab

ENAE398H **Honors Research Project**

(Perm req)

Credits: 1-3 Grading Method: Regular

Planned sequence of steps in aerospace honors research in which student take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

Contact department for information to register for this course.

ENAE403 **Aircraft Flight Dynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE414 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Study of motion of aircraft, equations of motion, aerodynamic force representation, longitudinal and lateral motions, response to controls and to atmospheric disturbances, handling qualities criteria and other figures of merit.

0101	Gregory Gremillion	Seats (Total: 72)
	TuTh 3:30pm - 4:45pm	ESJ 2212

ENAE423 **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Andrew Becnel, Sung Lee	Seats (Total: 100)
	MWF 11:00am - 11:50am	CHE 2110

ENAE423H **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Norman Wereley	Seats (Total: 24)
	MWF 11:00am - 11:50am	PLS 1146

ENAE441 **Space Navigation and Guidance**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

0101	Andrew Becnel, Christine Hartzell	Seats (Total: 49)
	TuTh 9:30am - 10:45am	CHE 2118

ENAE455 Aircraft Propulsion and Power

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: ENES232, ENAE414, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of piston, turbojet, fanjet, and other variations of airbreathing aircraft power units.

0101	Kenneth Yu	Seats (Total: 72)
	TuTh 12:30pm - 1:45pm	PLS 1140

ENAE457 Space Propulsion and Power

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.

0101	Raymond Sedwick	Seats (Total: 51)
	TuTh 2:00pm - 3:15pm	PHY 4221

ENAE481 Principles of Aircraft Design

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324, ENAE362, and ENAE432. Corequisite: ENAE414. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Aircraft design principles blending both synthesis and analysis. The iterative nature of the design process. Applied aerodynamics. Elements of aircraft performance calculation and optimization. Design of aircraft including payload, crew and avionics provisions, propulsion selection and sizing, aerodynamic configuration optimization, mass properties, stability and control characteristics, and vehicle subsystems. Individual student projects in aircraft design.

This course is restricted to students in the AHS Helicopter Design Compe tition and requires permission of the department to enroll.

0101	Dominic Palumbo MWF 2:00pm - 2:50pm	Seats (Total: 57) PHY 1201
0201	Sung Lee TuTh 2:00pm - 3:15pm *This course is restricted to students on the Design, Build, Fly team and requires permission from the department to enroll.*	Seats (Total: 14) CHM 0119
0301	James Baeder MWF 2:00pm - 2:50pm *This course is restricted to students in the AHS Helicopter Design Competition and requires permission of the department to enroll.*	Seats (Total: 10) EGR 1110

ENAE483 Principles of Space Systems Design

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404, ENAE324, ENAE362, and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of space systems analysis and vehicle design. Launch vehicle performance analysis and optimization. Design of vehicle systems including avionics, power, propulsion, life support, human factors, structures, actuator and mechanisms, and thermal control. Design processes and design synthesis. Individual student projects in vehicle design.

0101	Andrew Becnel, David Akin TuTh 11:00am - 12:15pm	Seats (Total: 50) JMP 2121

ENAE488R Topics in Aerospace Engineering; Planetary Rover Development

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Technical elective taken with the permission of the student's advisor and instructor. Lecture and conference courses designed to extend the student's understanding of aerospace engineering. Current topics are emphasized.

Class will meet in the Neutral Buoyancy Research Facility, Room 2100C.

0101	David Akin	Seats (Total: 20)
	MW 5:00pm - 7:00pm	NBRF 2100C

ENAE499 **Elective Research**

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE601 **Astrodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE404 and ENAE441.

Mathematics and applications of orbit theory, building upon the foundations developed in ENAE 404 and ENAE 441. Topics include two body orbits, solutions of Kepler's equation, the two-point boundary value problem, rendezvous techniques, and Encke's method.

0101	Christine Hartzell	Seats (Total: 25)
	MW 2:00pm - 3:15pm	MTH 1313

ENAE603 **Near-Earth Object Exploration**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE601. Restriction: Must be in one of the following programs (ENGR: MS/PhD-Aerospace Engineering (Master's); ENGR: MS/PhD-Aerospace Engineering (Doctoral)). Credit only granted for: ENAE788N or ENAE603. Formerly: ENAE788N.

An overview of the near-Earth objects (NEOs) of our solar system--the asteroids and comets whose orbits closely approach Earth's orbit--and what we know about them, what we're learning about them, and how to design spacecraft missions to interact with them.

0101	Brent Barbee	Seats (Total: 15)
	TuTh 5:00pm - 6:15pm	EGR 3111

ENAE631 **Helicopter Aerodynamics I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENAE414 and ENAE311. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

A history of rotary-wing aircraft, introduction to hovering theory, hovering and axial flight performance, factors affecting hovering and vertical flight performance, autorotation in vertical descent, concepts of blade motion and control, aerodynamics of forward flight, forward flight performance, operational envelope, and introduction to rotor acoustics.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Bharath Govindarajan	Seats (Total: 20)
	MW 9:30am - 10:45am	CHM 0127

ENAE641 **Linear System Dynamics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENAE432.

Linear systems; state space, multi-input, multi-output models; eigenstructure; controllability, observability, singular value analysis; multivariable Nyquist condition; observer design; introduction to Kalman filtering. Full state feedback techniques including pole placement and LQR/LQG techniques; introduction to loop shaping and robustness.

0101	Robert Sanner	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	PLS 1146

ENAE651 **Smart Structures**

Credits: 3

Grading Method: Regular, Audit

Topics related to the analysis, design, and implementation of smart structures and systems: modeling of beams and plates with induced strain actuation; shape memory alloys; electro-rheological fluids; magnetostrictor and electrostricter actuators and fiber optic sensors.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 20) JMP 2216
SM01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA
TV01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA

ENAE655 **Structural Dynamics**

Credits: 3 Grading Method: Regular, Audit

Advanced principles of dynamics necessary for structural analysis; solutions of eigenvalue problems for discrete and continuous elastic systems, solutions to forced response boundary value problems by direct, modal, and transform methods.

0101	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 25) JMP 2217
HT01	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	Olivier Bauchau MW 11:00am - 12:15pm	Seats (Total: 15) Location: TBA

ENAE673 **Aerodynamics of Incompressible Fluids**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate courses in differential equations, incompressible, and compressible flow (ENAE 311 and ENAE 414 or ENME 331 or ENME 640 or equivalent). Restriction: Must be in ENGR: MS/PhD-Aerospace Engineering (Master's) program.

Topics include: conservation equations, complex potential flow, the Navier-Stokes equations, boundary layers and similarity solutions, solutions to classical problems, and application to wing theory.

0101	Pino Martin TuTh 9:30am - 10:45am	Seats (Total: 20) ITV 1100

ENAE684 **Computational Fluid Dynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Aerospace Engineering department.

Partial differential equations applied to flow modelling, fundamental numerical techniques for the solution of these equations, elliptic, parabolic, and hyperbolic equations, elements of finite difference solutions, explicit and implicit techniques. Applications to fundamental flow problems.

0101	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 35) JMP 2222
HT01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE692 **Introduction to Space Robotics**

Credits: 3 Grading Method: Regular, Audit

Analysis techniques for manipulator kinematics and dynamics. DH parameters, serial and parallel manipulators, approaches to redundancy. Applications of robots to space operations, including manipulators on free-flying bases, satellite servicing, and planetary surface mobility. Sensors, actuators, and mechanism design. Command and control with humans in the loop.

0101	Craig Carignan MW 5:00pm - 6:15pm M 4:00pm - 4:50pm W 4:00pm - 4:50pm	Seats (Total: 25) PLS 1146 PLS 1146 HBK 1108	 Discussion Discussion

ENAE788A **Selected Topics in Aerospace Engineering; Fundamentals of Explosions I**

Credits: 3 Grading Method: Regular, Audit

0101	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 15) JMP 2120
HT01	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SG01	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SM01	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
TV01	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENAE788D **Selected Topics in Aerospace Engineering; Advanced Space Systems Design**

Credits: 3 Grading Method: Regular, Audit

0101	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 15) JMP 2121
HT01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE788K **Selected Topics in Aerospace Engineering; Estimation and Control of Stochastic Systems**

Credits: 3 Grading Method: Regular, Audit

0101	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 15) JMP 2216
HT01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SG01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SM01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
TV01	Robert Sanner MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENAE788O **Selected Topics in Aerospace Engineering; Aerospace Technology Solutions for a Changing Planet**

Credits: 3 Grading Method: Regular, Audit

Lectures from subject matter experts in the fields of aerospace technology, systems engineering, earth remote sensing, and earth system modeling and dynamics. The final class project will be a detailed roadmap for presentation to NASA leadership.

HT01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 15) JMP 2120

ENAE788P **Selected Topics in Aerospace Engineering; Analysis of Structural Elements**

Credits: 3 Grading Method: Regular, Audit

Also offered as ENME808Z. Credit only granted for ENAE788P or ENME808Z. Review of basic concepts of linear elasticity and beam theory. Yield criteria. Introduction to thermoelasticity. Variational calculus and variational principles in elasticity. Principle of virtual work, principle of complimentary virtual work, principle of minimum potential energy, principle of minimum complimentary potential energy. Applications to beams and plates; strategies for obtaining approximate solutions. Buckling and shear deformations in beams and plates.

0201	Olivier Bauchau MW 2:00pm - 3:15pm	Seats (Total: 15) ANS 0412

ENAE788R **Selected Topics in Aerospace Engineering; Helicopter Dynamics II**

Credits: 3 Grading Method: Regular, Audit

Restricted to ENAE graduate students. Prerequisite: ENAE633. Advanced dynamics, aerodynamics and aeromechanics of rotorcraft. Contents will cover composite rotors, active controls, unsteady aerodynamics, dynamic stall, tilt rotor air resonance and whirl flutter,high fidelity CFD/CSD simulations and wind tunnel testing of scaled models.

0101	Anubhav Datta MW 11:00am - 12:15pm	Seats (Total: 10) JMP 2222
TV01	Anubhav Datta MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENAE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCE Engineering, Civil Fall 2017

ENCE100 **Introduction to Civil and Environmental Engineering**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

An overview of the department of Civil and Environment Engineering. Students are introduced to the undergraduate curriculum and will be exposed to other undergraduate and graduate students at various points in their program. The course blends panel presentations by seniors and graduate students, faculty and practitioners with a project and book review to be performed by the students.

0101	Kaye Brubaker F 1:00pm - 1:50pm	Seats (Total: 132) EGR 1202

ENCE200 **Civil Engineering Computation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100, MATH141, and ENES102; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE200 or ENCE202. Formerly: ENCE202.

Development of knowledge and skills in managing, analyzing, interpreting, and communicating spatial information. Computer Aided Drawing (CAD) and Geographic Information Systems (GIS) are introduced in the context of civil and environmental engineering applications.

0101	Jianguo Ma, Frank White MW 2:00pm - 3:15pm	Seats (Total: 38) EGR 1156
0201	Frank White, Jianguo Ma MW 3:30pm - 4:45pm	Seats (Total: 38) EGR 1156

ENCE201 **Engineering Information Processing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

0101	Peter Chang MWF 2:00pm - 2:50pm	Seats (Total: 70) EGR 0108

ENCE215 **Engineering for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; and permission of ENGR-Civil & Environmental Engineering department.

Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.

0101	Natasha Almeida e Andrade TuTh 8:00am - 9:15am	Seats (Total: 24) EGR 3102
0201	Natasha Almeida e Andrade TuTh 2:00pm - 3:15pm	Seats (Total: 24) PLS 1146
0301	Natasha Almeida e Andrade TuTh 3:30pm - 4:45pm	Seats (Total: 24) EGR 1102

ENCE300 **Fundamentals of Engineering Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Behavior, physical, mechanical and chemical properties, design and performance of civil engineering materials, including aggregates, cement, concrete, asphalt binders and mixtures, plastics and geosynthetics, timber, metals and alloys. Modified and advanced highway materials (polymer and rubber modified mixtures, high performance concrete, composites, smart materials). Laboratory testing with hands-on experience on aggregates, Portland cement concrete, asphalt mixtures, timber and metals as per SUPERAVE, ACI design methods, and ASTM standards and specifications.

Restricted to students in the College of Engineering.

0101	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 10:30am - 12:30pm	Seats (Total: 18) ESJ 1215 EGL 0147	 Lab
0102	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 12:30pm - 2:30pm	Seats (Total: 18) ESJ 1215 EGL 0147	 Lab

0103	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 2:30pm - 4:30pm	Seats (Total: 18) ESJ 1215 EGL 0147	 Lab
0104	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 4:30pm - 6:30pm	Seats (Total: 18) ESJ 1215 EGL 0147	 Lab

ENCE302 **Probability and Statistics for Civil and Environmental Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246 and ENCE201; and permission of ENGR-Civil & Environmental Engineering department.

Statistics is the science of data. Civil Engineers must often make decisions based on incomplete, variable or uncertain information. In addition, modern methods of design and analysis need to account for variability in natural, engineered and human systems. After successful completion of this class, a student should have facility and familiarity with established basic techniques for managing data, modeling variability and uncertainty, communicating about data and decisions, and supporting or defending a decision or judgment based on uncertain or incomplete data.

Restricted to students in the College of Engineering.

0101	Bilal Ayyub MWF 2:00pm - 2:50pm	Seats (Total: 55) PHY 1204
0201	Michelle Bensi MWF 2:00pm - 2:50pm	Seats (Total: 32) CSI 2118

ENCE305 **Fundamentals of Engineering Fluids**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE305 or ENCE330. Formerly: ENCE330.

The theoretical bases for fluid statics and dynamics, including the conservation of mass, energy and momentum. Modeling of hydraulic systems are introduced. Emphasis on pipe flow and open-channel hydraulics, with real-world applications.

0101	Kaye Brubaker MWF 8:00am - 8:50am	Seats (Total: 40) EGR 0135

0102	Richard McCuen	Seats (Total: 43)
	MWF 10:00am - 10:50am	EGR 1104

ENCE310 **Introduction to Environmental Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS260 and ENCE215; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to the physical, chemical and biological systems relating to the quality of water, land and air environments. Fundamental principles will be emphasized, current environmental pollution problems will be examined and methods of pollution abatement discussed.

0101	Guido Yactayo	Seats (Total: 66)
	TuTh 8:00am - 9:15am	EGR 0108

ENCE320 **Introduction to Project Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering or in the Project Management Minor. Credit only granted for: ENCE320 or ENCE325.

Learn the fundamentals of project management and the analytical skills for the management side of engineering projects.Topics include economic analysis, project screening and selection, organizational and project structure, scheduling, budgeting, resource management, life cycle costing, and project control.

Restricted to students in the College of Engineering.

0101	Gregory Baecher	Seats (Total: 150)
	Th 5:00pm - 7:30pm	ESJ 1224

ENCE325 **Introduction to Construction Project Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in a major in ARCH-School of Architecture, Planning, & Preservation; or must be in the Construction Project Management minor. And permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE 320 or ENCE 325.

Learn the basic topics in sourcing, planning, financing, designing, contracting, constructing and operating buildings and other facilities in the built infrastructure. Topics include construction economics, design constructability reviews, construction process planning, contracts and procurement strategies, project scheduling and resource utilization, site layout planning, project cost and quality controls, temporary structures, environmental sustainability, project handover procedures, facility operation and management, IT-based tools for construction project and resource management.

0101	Stephen Wooldridge	Seats (Total: 50)
	Th 5:00pm - 7:30pm	EGR 1108

ENCE340 **Fundamentals of Geotechnical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Introductory study of soils in civil engineering. Soil origin, phase relationships and classification schemes. Soil hydraulics: capillary, effective stress, permeability and seepage considerations. Basic stress distribution theories and soil consolidation-settlement analysis. Integration of shear strength evaluation with slope stability analysis. If time permits, topics such as applications in geoenvironmental engineering will be covered.

0101	Ahmet Aydilek	Seats (Total: 57)
	TuTh 9:30am - 10:45am	MCB 1207

ENCE353 **Introduction to Structural Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department; and (MATH246 and ENES220).

The basic tools of structural analysis and design. Design loads. Equilibrium of external and internal forces. Shear and moment diagrams in beams and frames. Truss analysis. Influence line diagrams. The slope-deflection method and method of consistent deformation. Matrix stiffness methods for beams, frames and trusses.

Restricted to students in the College of Engineering.

0101	Mark Austin	Seats (Total: 60)
	MWF 9:00am - 9:50am	EGR 0108

ENCE360 **Analysis of Civil Engineering Systems**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.

0101	Ali Haghani TuTh 9:30am - 10:45am	Seats (Total: 36) EGR 1156
0102	Ali Haghani TuTh 11:00am - 12:15pm	Seats (Total: 36) EGR 1156

ENCE370 **Introduction to Transportation Engineering and Planning**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department.

Engineering problems of transportation by highways, airways, pipelines, waterways, and railways. Transportation modes and technologies, vehicle dynamics, basic facility design, traffic stream models, capacity analysis, transportation planning, evaluation and choice, and network analysis.

Restricted to students in the College of Engineering.

0101	Cinzia Cirillo MWF 1:00pm - 1:50pm	Seats (Total: 60) PHY 1201

ENCE411 **Environmental Engineering Science**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE310; and permission of ENGR-Civil & Environmental Engineering department.

Introduces the analytical techniques available to assess performance of engineering processes as they relate to water, soil, and air treatment and quality. The basic principles of environmental management, economics of waste treatment, by-product reutilization, and energy cycles are introduced and discussed. Alternative technologies are introduced and evaluated mostly by assessing their potential to reduce waste, minimize energy use, and promote sustainability. Students' activities include, a weekly lab to provide hands-on experience with environmental quality measurements and treatment techniques; on-site visits to regional industries that undertake sustainable practices; and a final research project where experimental design and laboratory techniques are used to assess interactions between technologies and natural systems and their potential for reducing environmental impacts.

0101	Alba Torrents TuTh 11:00am - 11:50am W 10:00am - 1:00pm	Seats (Total: 12) EGR 0135 Location: TBA	 Lab
0102	Alba Torrents TuTh 11:00am - 11:50am W 2:00pm - 5:00pm	Seats (Total: 12) EGR 0135 Location: TBA	 Lab

ENCE420 **Selection and Utilization of Construction Equipment**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor.

Learn to evaluate and select construction equipment with a focus on mechanized equipment for earthwork and building construction.Learn about the parties involved in procurement, operation and maintenance, and how to cost-effectively plan, select, and utilize equipment for earthmoving, paving, formwork, trenching, rock excavation, tunneling, site preparation, and steel and concrete construction. Explore trends in equipment design, construction automation, and robotics.

0101	Miroslaw Skibniewski M 3:30pm - 6:00pm	Seats (Total: 25) EGR 2154

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

0101	Qingbin Cui	Seats (Total: 60)
	M 5:00pm - 7:30pm	CHM 2201

ENCE423 **Project Planning, Estimating & Scheduling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor. And permission of ENGR-Civil & Environmental Engineering department.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

Restricted to students in the College of Engineering.

0101	Kenneth O'Connell	Seats (Total: 75)
	Tu 5:00pm - 7:30pm	PLS 1140

ENCE424 **Communication for Project Managers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

0101	William Brantley	Seats (Total: 75)
	Tu 5:00pm - 7:30pm	ESJ 0215

ENCE426 **Construction Documentation and BIM Applications in Engineering and Construction**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the basics of construction documentation methods, with particular emphasis on Building Information Modeling (BIM). Topics include: the fundamentals of assembly, coordination, and maintenance of construction documents and implementation of BIM techniques in the design and construction processes, and; a review of Autodesk, Revit, and Navisworks and other leading BIM software. Lectures from project management faculty supplemented by guest lecturers from the construction industry.

0101	Jason Dreher	Seats (Total: 40)
	W 5:00pm - 7:30pm	CSI 3117

ENCE432 **Ground Water Hydrology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE305; and permission of ENGR-Civil & Environmental Engineering department.

Concepts related to the development of the ground water resources, hydrology, hydrodynamics of flow through porous media, hydraulics of wells and basin-wide ground water development. Fundamentals of ground water pollution are introduced.

Restricted to students in the College of Engineering.

0101	Kaye Brubaker	Seats (Total: 42)
	MWF 9:00am - 9:50am	EGR 0135

ENCE441 **Foundation Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

Critical review of classical lateral earth pressure theories, analysis of retaining walls and reinforced earth walls, subsurface explorations, bearing capacity and settlement of shallow foundations, design of deep foundations that includes both pile foundations and drilled shafts.

Restricted to students in the College of Engineering.

0101	Mohamed Aggour TuTh 11:00am - 12:15pm	Seats (Total: 70) CSI 3117	

ENCE444 **Experimental Methods in Geotechnical Structural Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353 and ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

In the geotechnical engineering part of the course, major soils testing and their interpretation including classification, compaction, strength, and compressibility will be undertaken. The structural engineering part of this course covers test planning, loading apparatus, instrumentation, data acquisition and data analysis, as well as basic aspects of structural testing techniques and shake-table test.

0101	Yunfeng Zhang, Ahmet Aydilek Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 20) PLS 1158 EGL 0110E	 Lab
0201	Yunfeng Zhang, Ahmet Aydilek Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 15) EGR 3111 PLS 1111	 Lab

ENCE454 **Design of Concrete Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department. Formerly: ENCE451.

Combined bending and compression, development and anchorage of reinforcement, deflections, design of slabs including one-way and two-way, design of footings, retaining walls, introduction to prestressed concrete, design of multi-story buildings.

0101	Amde Amde MWF 11:00am - 11:50am	Seats (Total: 45) CHE 2118	

0201	Amde Amde MWF 10:00am - 10:50am	Seats (Total: 35) CHE 2118	

ENCE466 **Design of Civil Engineering Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Audit CORE: CS

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Senior standing. Additional information: Must be taken in the semester in which the student graduates.

A major civil engineering design experience that emphasizes development of student creativity, development and use of design methodologies, evaluation of alternate solutions, feasibility considerations, and detailed system descriptions. Realistic design constraints including economic factors, safety, aesthetics, and reliability will be imposed. Students will work in design project groups and be required to exercise oral and written communication skills.

Restricted to students in the College of Engineering.

0101	Russell Anderson Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 40) JMP 3201 EGR 1156	 Lab
0102	Russell Anderson Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	Seats (Total: 40) JMP 3201 EGR 1156	 Lab

ENCE470 **Highway Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE302 and ENCE370; and permission of ENGR-Civil & Environmental Engineering department.

Highway location and design, highway engineering economics, traffic engineering, traffic measurement devices and technologies. Includes discussion of technological advances in traffic flow and capacity, such as signal systems, corridor control, automatic driver information, incident detection and autonomous vehicle operation.

Restricted to students in the College of Engineering.

0101	ShiaauLir Wang MWF 10:00am - 10:50am	Seats (Total: 40) CHM 0119	

ENCE489 **Special Problems in Civil Engineering**

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489G **Special Problems in Civil Engineering; Remote Sensing of Global Water**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Prerequisite: MATH241; ENCE201; and ENCE305. Introduction to basic concepts of remote sensing in water resource management. Discussion of measurements related to hydrologically- relevant variables such as soil moisture, snow, groundwater, precipitation, and river discharge. Application of remote sensing datasets in the characterization and quantification of available freshwater resources.

0101	Barton Forman	Seats (Total: 20)
	TuTh 4:00pm - 5:15pm	EGR 0135

ENCE602 **Project Procurement Management**

Credits: 3

Grading Method: Regular, Audit

Fundamental concepts and techniques for project acquisition and procurement are presented. Students are introduced to the PMBOK Guide six-step procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution. It will also cover emerging methods, principles, and practices in infrastructure project procurement, including Public-Private Partnerships, Carbon project procurement, and Clean Development Mechanism.

PM01	Qingbin Cui	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Monday 730pm-830pm.	

ENCE610 **Fundamentals of Structural Analysis**

Credits: 3

Grading Method: Regular, Audit

Cartesian tensor notation. Linear forms of the general equilibrium, compatability, and constitutive equations. The calculus of variations. The principles of virtual work and complementary virtual work. Self-adjoint problem formulations.

0101	Peter Chang	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	CHE 2145

ENCE611 Finite Element Methods

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE661.

Basic principles and fundamental concepts of the finite element method. Consideration of geometric and material nonlinearities, convergence, mesh gradation and computational procedures in analysis. Applications to plane stress and plane strain, plates and shells, eigenvalue problems, axisymmetric stress analysis, and other problems in civil engineering.

0101	Brian Phillips	Seats (Total: 25)
	MW 3:30pm - 4:45pm	EGR 3114

ENCE613 Structural Dynamics

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE653.

Analysis of the dynamic response of structrues and structural component subjected to impact load, transient load, and ground excitations; study of single degree-of-freedom and multi degree-of-freedom systems in classical closed form solution and approximate numerical solution; solution in the frequency domain and the use of finite element method.

0101	Yunfeng Zhang	Seats (Total: 25)
	W 5:00pm - 7:30pm	EGR 3114

ENCE620 Risk Analysis for Engineering

Credits: 3 Grading Method: Regular, Audit

Sources of hazards, definition of risk, system analysis, functional modeling and analysis techniques, probabilistic risk assessment procedure, risk methods, risk acceptance, assessment of failure likelihood, consequence assessment, risk benefit assessment, uncertainty surces and types, modeling uncertainty, risk analysis and decision making under uncertainty, collection of data, expert-opinion elicitation, human-machine interface and human factors engineering.

0101	Bilal Ayyub M 5:00pm - 7:30pm	Seats (Total: 20) EGR 1110

ENCE627 **Project Risk Management**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed ENCE627.

Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of project risk. Examples are drawn from construction, software development, systems integration, and other large engineering projects; and cover probability basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.

0101	Gregory Baecher F 8:00am - 10:40am	Seats (Total: 40) JMP 2222
PM01	Gregory Baecher Class time/details on ELMs *Weekly video conferences Thursday 7am-8am and 7pm-8pm.*	Seats (Total: 30) ONLINE

ENCE630 **Environmental and Water Resource Systems I**

Credits: 3 Grading Method: Regular, Audit

Application of statistical and systems engineering techniques in the analysis of information necessary for the design or characterization of environmental or hydrologic processes; emphasis on the fundamental considerations that control the design of information collection programs, data interpretation, and the evolution of simulation models used to support the decision-making process.

0101	Richard McCuen TuTh 9:30am - 10:45am	Seats (Total: 14) EGR 1110

ENCE650 **Process Dynamics in Environmental Systems**

Credits: 3

Grading Method: Regular, Audit

Formerly: ENCE636.

The fundamentals of heterogeneous equilibria, rates of environmental reactions, and flow and material transport or presented. Applications of these principles will be presented to small and large scale environmental problems involving liquid, gas, and solid phases. Both natural and engineered environmental systems will be examined.

0101	Allen Davis	Seats (Total: 20)
	TuTh 9:30am - 10:45am	EGR 2116

ENCE651 **Chemistry of Natural Waters**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENCE633 or ENCE651. Formerly: ENCE633.

Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.

Also offered as MEES698@.

0101	Alba Torrents	Seats (Total: 20)
	TuTh 8:00am - 9:15am	EGR 1110

ENCE652 **Microbiological Principles of Environmental Engineering**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENCE637 or ENCE652. Formerly: ENCE637.

An examination of microbiological principles directly affecting humans and the surrounding environment. Special emphasis is given to the understanding of microbial physiology and in environmental engineering related to water and land systems including aerobic and anaerobic treatment processes involved in nutrient/waste recycling as well as impact of xenobiotic compounds on processes water, soil and sediment.

0101	Birthe Kjellerup	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	EGR 3111

ENCE661 **Project Cost Accounting and Finance**

Credits: 3 Grading Method: Regular, Audit

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

PM01	James Myers	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Weekly video conferences Monday 7pm-8pm and Tuesday 3:30pm-4:30pm.	

ENCE662 **Introduction to Project Management**

Credits: 3 Grading Method: Regular, Audit

Introduction to project management including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout(performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).

0101	John Cable	Seats (Total: 37)
	W 4:00pm - 6:40pm	JMP 2222
PM01	John Cable	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Monday 7:00am to 8:00am and 8:00pm to 9:00pm.	

ENCE664 **Legal Aspects of Engineering Design and Construction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examines ways in which the legal system affects the design and construction process. Focuses on contract types and the relationships between the parties in different delivery systems. Covers basics of procurement protocols along with negotiating techniques and strategies. Topics include contract law, the relationships between the parties, tort and negligence law, and the statutory principles affecting construction.

Weekly video conference after 7:50 p.m.

PM01	Thomas Powell, Mark Groff, Thomas Barham	Seats (Total: 35)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Tuesday 7AM-8AM and Tuesday 8PM-9PM.	

ENCE665 **Management of Project Teams**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Experience has shown that really excellent project managers are not only technically competent but that they have above average skills in human relations and communications. The course will prepare project managers to optimize the utilization of their most important resource: people. Relying primarily on a wide range of research and experience in the Project Team, this course will help guide project managers in building the other skills needed to be truly successful in the competitive Project Team.

0101	Jocelyn Davis	Seats (Total: 40)
	Th 4:00pm - 6:40pm	JMP 2121

ENCE666 **Cost Engineering and Control**

Credits: 3 Grading Method: Regular, Audit

Analytic techniques to estimate and control project costs, including site investigation, quantity takeoff, work analysis and bid preparation. Systematic cost control as related to job production and historical data.

PM01	Neil Schulman	Seats (Total: 30)
	Meets August 28, 2017 - December 4, 2017	
	Class time/details on ELMs	ONLINE
	Weekly video conferences: Wednesday 7:00-7:50.	

ENCE670 **Highway Traffic Characteristics and Measurements**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENCE470; or permission of instructor.

The study of the fundamental traits and behavior patterns of road users and their vehicles in traffic. The basic characteristics of the pedestrian, the driver, the vehicle, traffic volume and speed, stream flow and intersection operation, parking, and accidents.

0101	Charles Liu	Seats (Total: 29)
	Th 12:30pm - 3:10pm	EGR 2154

ENCE672 **Regional Transportation Planning**

Credits: 3

Grading Method: Regular, Audit

Factors involved and the components of the process for planning statewide and regional transportation systems, encompassing all modes. Transportation planning studies, statewide traffic models, investment models, programming and scheduling.

0101	Paul Schonfeld	Seats (Total: 29)
	Tu 5:00pm - 7:30pm	EGR 2154

ENCE677 **OR Models for Transportation Systems Analysis**

Credits: 3

Grading Method: Regular, Audit

Fundamental skills and concepts of the quantitative techniques of operations research including: mathematical modeling, linear programming, integer programming, network optimization (shortest paths, minimum spanning trees, minimum cost network flows, maximum flows), heuristics, and basics of probabilistic modeling. Emphasis on the application of these techniques to problems arising in transportation.

0101	Ali Haghani	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMP 1202

ENCE681 **Freight Transportation Analysis**

Credits: 3

Grading Method: Regular, Audit

Application of operations research and system analysis methods to freight transportation systems. Cost and output analysis, terminal location, freight transportation demand models, freight transportation network equilibrium models and analytic models for analyzing the operations of rail, motor carrier, water carrier and air cargo systems.

0101	Paul Schonfeld M 5:00pm - 7:45pm	Seats (Total: 20) EGR 3114

ENCE688I **Advanced Topics in Civil Engineering; Discrete Choice Analysis**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

TS01	Cinzia Cirillo Class time/details on ELMs	Seats (Total: 15) ONLINE

ENCE688K **Advanced Topics in Civil Engineering; Risk and Resilience of Infrastructure Systems and Services**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Allison Reilly W 5:00pm - 7:30pm	Seats (Total: 12) EGR 1110

ENCE688M **Advanced Topics in Civil Engineering; Intelligent Transportation Systems**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Kaveh Farokhi Sadabadi W 4:00pm - 6:40pm	Seats (Total: 20) JMP 2217
TS01	Kaveh Farokhi Sadabadi Class time/details on ELMs	Seats (Total: 5) ONLINE

ENCE688V **Advanced Topics in Civil Engineering; Analytical Procedures of Structural Fire Protection**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Jose Torero	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	ESJ 1215

ENCE689 **Seminar**

Credits: 1-16 Grading Method: Regular, Audit

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE689G **Seminar; Remote Sensing of Global Water**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH241; ENCE201; and ENCE305. Introduction to basic concepts of remote sensing in water resource management. Discussion of measurements related to hydrologically- relevant variables such as soil moisture, snow, groundwater, precipitation, and river discharge. Application of remote sensing datasets in the characterization and quantification of available freshwater resources.

0101	Barton Forman	Seats (Total: 20)
	TuTh 4:00pm - 5:15pm	EGR 0135

ENCE743 **Soil Dynamics and Earthquake Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENCE642 or ENCE743. Formerly: ENCE642.

Review of theory of vibration and wave propagation in elastic media. Field and laboratory methods for determining dynamic soil properties. Analysis and design of soil-foundation systems subjected to machinery generated vibrations and methods of foundation isolation. Earthquake causes, magnitude and intensity, seismic hazard evaluation, NEHRP site classification, site response analyses and ground motion amplification, liquefaction and response of earth structures.

0101	Mohamed Aggour	Seats (Total: 25)
	Th 5:00pm - 7:30pm	EGR 2154

ENCE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCH Engineering, Chemical Fall 2017

ENCH609 **Graduate Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Dongxia Liu	Seats (Total: 35)
	Tu 11:00am - 12:15pm	CHE 2108

ENCH610 **Chemical Engineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHBE301; and CHBE302. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Advanced application of the general thermodynamic methods to chemical engineering problems. First and second law consequences; estimation and correlation of thermodynamic properties; phase and chemical reaction equilibria.

0101	Mikhail Anisimov	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	BPS 1228

ENCH620 **Methods of Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246; and CHBE250. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Application of selected mathematical techniques to the analysis and solution of engineering problems; included are the applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to such problems as unsteady heat transfer, transient phenomena in mass transfer operations, stagewise processes, chemical reactors, process control, and nuclear reactor physics.

0101	Nam Sun Wang TuTh 5:00pm - 6:15pm	Seats (Total: 35) JMP 1109

ENCH648 **Special Problems in Chemical Engineering**

(Perm req)

Credits: 1-16 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCH648E **Special Problems in Chemical Engineering; Heterogeneous Catalysis for Energy Applications**

Credits: 3 Grading Method: Regular, Audit

0101	Dongxia Liu MW 5:00pm - 6:15pm	Seats (Total: 6) CHE 2110

ENCH648L **Special Problems in Chemical Engineering; Photovoltaics: Solar Energy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMP 2216
HT01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 10) Location: TBA
ME01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) ONLINE
SG01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 10) Location: TBA

SM01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENCH648P **Special Problems in Chemical Engineering; Protein Engineering**

Credits: 3 Grading Method: Regular, Audit

0101	Amy Karlsson TuTh 12:30pm - 1:45pm	Seats (Total: 10) EGR 1104

ENCH648X **Special Problems in Chemical Engineering; Multiscale and Multiphase Flows**

Credits: 3 Grading Method: Regular, Audit

0101	Richard Calabrese TuTh 9:30am - 10:45am	Seats (Total: 5) CHE 2145

ENCH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH899 **Doctoral Dissertation Research; Chemical Engineering**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCO Engineering, Cooperative Education Fall 2017

ENCO099 **Co-Op/Intern Work Experience**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

If dropping course, see Withdrawal and Refund of Fees - Special Refund Deadlines in the Financial Information section of the Schedule of Classes.

0101	Heidi Sauber, Veronica Perrigan Contact instructor or department for details.	Seats (Total: 200)

ENEE Electrical & Computer Engineering Fall 2017

ENEE101 **Introduction to Electrical & Computer Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: MATH140. And corequisite: ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and students cannot enroll in ENEE101 and ENES100 in the same semester.

An exploration of topics within Electrical & Computer Engineering (ECE). Students will be introduced to key elements of both the Electrical Engineering and Computer Engineering curriculum, including: circuits, computing systems and software, communications and controls, electrodynamics and waves, microelectronics, signal processing, and power systems.

0101	Ramalingam Chellappa Th 4:00pm - 5:15pm MW 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0102	Ramalingam Chellappa Th 4:00pm - 5:15pm MW 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0103	Ramalingam Chellappa Th 4:00pm - 5:15pm MW 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0104	Ramalingam Chellappa Th 4:00pm - 5:15pm MW 2:00pm - 3:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab

0105	Ramalingam Chellappa Th 4:00pm - 5:15pm TuTh 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0106	Ramalingam Chellappa Th 4:00pm - 5:15pm TuTh 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0107	Ramalingam Chellappa Th 4:00pm - 5:15pm TuTh 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0108	Ramalingam Chellappa Th 4:00pm - 5:15pm TuTh 2:00pm - 3:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0109	Ramalingam Chellappa Th 4:00pm - 5:15pm MW 4:00pm - 5:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab

ENEE140 **Introduction to Programming Concepts for Engineers**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program; or must be in Engineering: Materials Science program.

Introduction to the programming environment: editing, compiling, UNIX, data types and variable scope; program selection, formatted/unformatted input/output, repetition, functions, arrays and strings.

0101	Gang Qu Tu 9:30am - 10:45am WF 8:00am - 8:50am	Seats (Total: 12) KEB 1110 AVW 2446	 Discussion
0102	Gang Qu Tu 9:30am - 10:45am WF 9:00am - 9:50am	Seats (Total: 12) KEB 1110 AVW 2446	 Discussion
0103	Gang Qu Tu 9:30am - 10:45am WF 10:00am - 10:50am	Seats (Total: 12) KEB 1110 AVW 2446	 Discussion

0104	Gang Qu Tu 9:30am - 10:45am WF 11:00am - 11:50am	Seats (Total: 12) KEB 1110 AVW 2446	Discussion
0105	Gang Qu Tu 9:30am - 10:45am WF 1:00pm - 1:50pm	Seats (Total: 12) KEB 1110 AVW 2446	Discussion
0106	Gang Qu Tu 9:30am - 10:45am WF 2:00pm - 2:50pm	Seats (Total: 12) KEB 1110 AVW 2446	Discussion

ENEE150 **Intermediate Programming Concepts for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program. Credit only granted for: ENEE114 or ENEE150. Formerly: ENEE114.

Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.

0101	Donald Yeung TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 12) EGR 0108 AVW 1442	Discussion
0102	Donald Yeung TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 12) EGR 0108 AVW 1442	Discussion
0103	Donald Yeung TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 12) EGR 0108 AVW 1442	Discussion
0104	Donald Yeung TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 12) EGR 0108 AVW 1442	Discussion

0105	Donald Yeung TuTh 11:00am - 12:15pm F 3:00pm - 3:50pm	Seats (Total: 8) EGR 0108 AVW 1442	Discussion

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSHU, SCIS

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

0101	Nicole Mogul TuTh 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 16) ESJ 1202 CSI 2120	Discussion
0102	Nicole Mogul TuTh 11:00am - 11:50am F 10:00am - 11:50am	Seats (Total: 16) ESJ 1202 EGR 3111	Discussion
0103	Nicole Mogul TuTh 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 16) ESJ 1202 EGR 3111	Discussion
0104	Nicole Mogul TuTh 11:00am - 11:50am F 2:00pm - 3:50pm	Seats (Total: 16) ESJ 1202 EGR 3111	Discussion
0105	Nicole Mogul TuTh 11:00am - 11:50am F 4:00pm - 5:50pm	Seats (Total: 16) ESJ 1202 EGR 3111	Discussion
0201	Nicole Mogul TuTh 3:30pm - 4:20pm F 8:00am - 9:50am	Seats (Total: 16) ESJ 1202 EGR 3111	Discussion

0202	Nicole Mogul TuTh 3:30pm - 4:20pm F 10:00am - 11:50am	Seats (Total: 16) ESJ 1202 CHM 0127	 Discussion
0203	Nicole Mogul TuTh 3:30pm - 4:20pm F 12:00pm - 1:50pm	Seats (Total: 16) ESJ 1202 CHE 2116	 Discussion
0204	Nicole Mogul TuTh 3:30pm - 4:20pm F 2:00pm - 3:50pm	Seats (Total: 16) ESJ 1202 CHE 2116	 Discussion
0205	Nicole Mogul TuTh 3:30pm - 4:20pm F 4:00pm - 5:50pm	Seats (Total: 16) ESJ 1202 EGR 1110	 Discussion

ENEE205 **Electric Circuits**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Christopher Davis MW 2:00pm - 3:15pm Tu 12:00pm - 1:50pm Tu 11:00am - 11:50am	Seats (Total: 12) EGR 1108 AVW 1356 AVW 1356	 Lab Discussion
0102	Christopher Davis MW 2:00pm - 3:15pm Tu 9:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 12) EGR 1108 AVW 1356 AVW 1356	 Lab Discussion

0103	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	EGR 1108	
	Th 12:00pm - 1:50pm	AVW 1356	Lab
	Th 11:00am - 11:50am	AVW 1356	Discussion
0104	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	EGR 1108	
	Th 9:00am - 10:50am	AVW 1356	Lab
	Th 8:00am - 8:50am	AVW 1356	Discussion
0105	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	EGR 1108	
	W 12:00pm - 1:50pm	AVW 1356	Lab
	W 11:00am - 11:50am	AVW 1356	Discussion
0201	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 12:00pm - 1:50pm	AVW 1356	Lab
	M 11:00am - 11:50am	AVW 1356	Discussion
0202	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 3:00pm - 4:50pm	AVW 1356	Lab
	M 2:00pm - 2:50pm	AVW 1356	Discussion
0203	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	W 3:00pm - 4:50pm	AVW 1356	Lab
	W 2:00pm - 2:50pm	AVW 1356	Discussion
0204	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	F 9:00am - 10:50am	AVW 1356	Lab
	F 8:00am - 8:50am	AVW 1356	Discussion
0205	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 0108	
	M 9:00am - 10:50am	AVW 1356	Lab
	M 8:00am - 8:50am	AVW 1356	Discussion

ENEE222 Elements of Discrete Signal Analysis

(Perm req) Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and permission of ENGR-Electrical & Computer Engineering department. And minimum grade of C- in ENEE140; or minimum grade of C- in CMSC131. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE222, ENEE241, or MATH242. Formerly: ENEE241.

Discrete-time and continuous-time signals, sampling. Linear transformers, orthogonal projections. Discrete Fourier Transform and its properties. Fourier Series. Introduction to discrete-time linear filters in both time and frequency domains.

0101	Gilmer Blankenship	Seats (Total: 22)	
	MW 3:30pm - 4:45pm	EGR 0108	
	Th 9:00am - 9:50am	KEB 2107	Lab
	Tu 9:00am - 9:50am	KEB 2107	Discussion
0102	Gilmer Blankenship	Seats (Total: 22)	
	MW 3:30pm - 4:45pm	EGR 0108	
	Th 10:00am - 10:50am	KEB 2107	Lab
	Tu 10:00am - 10:50am	KEB 2107	Discussion
0103	Gilmer Blankenship	Seats (Total: 22)	
	MW 3:30pm - 4:45pm	EGR 0108	
	Th 11:00am - 11:50am	KEB 2107	Lab
	Tu 11:00am - 11:50am	KEB 2107	Discussion
0201	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	EGR 0108	
	F 9:00am - 9:50am	KEB 2107	Lab
	W 9:00am - 9:50am	KEB 2107	Discussion
0202	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	EGR 0108	
	F 10:00am - 10:50am	KEB 2107	Lab
	W 10:00am - 10:50am	KEB 2107	Discussion
0203	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	EGR 0108	
	F 11:00am - 11:50am	KEB 2107	Lab
	W 11:00am - 11:50am	KEB 2107	Discussion

ENEE244 Digital Logic Design

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

0101	Joseph JaJa MW 12:30pm - 1:45pm Th 8:00am - 8:50am	Seats (Total: 12) KEB 1110 CHE 2116	Discussion
0102	Joseph JaJa MW 12:30pm - 1:45pm Th 10:00am - 10:50am	Seats (Total: 12) KEB 1110 CHE 2116	Discussion
0103	Joseph JaJa MW 12:30pm - 1:45pm Th 3:00pm - 3:50pm	Seats (Total: 12) KEB 1110 EGR 3111	Discussion
0104	Joseph JaJa MW 12:30pm - 1:45pm Th 4:00pm - 4:50pm	Seats (Total: 12) KEB 1110 EGR 3111	Discussion
0105	Joseph JaJa MW 12:30pm - 1:45pm Th 9:00am - 9:50am	Seats (Total: 12) KEB 1110 CHE 2116	Discussion
0106	Joseph JaJa MW 12:30pm - 1:45pm Th 11:00am - 11:50am	Seats (Total: 12) KEB 1110 HBK 1108	Discussion
0201	Jerry Wu TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 12) JMP 3201 CHE 2140	Discussion

0202	Jerry Wu TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 12) JMP 3201 EGR 3111	Discussion
0203	Jerry Wu TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 12) JMP 3201 EGR 3111	Discussion
0204	Jerry Wu TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 12) JMP 3201 EGR 3111	Discussion
0205	Jerry Wu TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 12) JMP 3201 EGR 3111	Discussion
0206	Jerry Wu TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 12) JMP 3201 EGR 3111	Discussion

ENEE245 **Digital Circuits and Systems Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244. And minimum grade of C- in ENEE150; or minimum grade of C- in CMSC132. And permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of digital circuits containing logic gates, sequential elements, oscillators, and digital integrated circuits. Introduction to digital design and simulation with the Verilog Hardware Description Language (HDL).

0101	Candace Walden M 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	Lab
0102	Candace Walden M 9:00am - 9:50am Tu 8:00am - 10:50am	Seats (Total: 12) ESJ 1202 AVW 1450	Lab

0103	Candace Walden M 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0104	Candace Walden M 9:00am - 9:50am Th 11:00am - 1:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0105	Candace Walden M 9:00am - 9:50am F 2:00pm - 4:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0106	Candace Walden M 9:00am - 9:50am Tu 2:00pm - 4:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0107	Candace Walden M 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0108	Candace Walden M 9:00am - 9:50am W 8:00am - 10:50am	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab
0110	Candace Walden M 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 12) ESJ 1202 AVW 1450	 Lab

ENEE303 **Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Timothy Horiuchi MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 25) KEB 1110 EGR 1102	 Discussion

0102	Timothy Horiuchi MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 25) KEB 1110 EGR 1102	Discussion
0201	Timothy Horiuchi MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 25) PLS 1130 EGR 3114	Discussion
0202	Timothy Horiuchi MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 25) PLS 1130 EGR 1102	Discussion
0301	Robert Newcomb TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 20) EGR 0108 EGR 3102	Discussion
0302	Robert Newcomb TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 20) EGR 0108 EGR 3102	Discussion

ENEE303H **Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Robert Newcomb TuTh 12:30pm - 1:45pm M 10:00am - 10:50am	Seats (Total: 15) EGR 0108 PLS 1164	Discussion

ENEE307 **Electronic Circuits Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Students will design and test analog and digital circuits at the transistor level. FETs and BJTs will be covered. The laboratory experiments will be tightly coordinated with ENEE303 materials.

0101	Neil Goldsman W 10:00am - 10:50am M 8:00am - 11:00am	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0102	Neil Goldsman W 10:00am - 10:50am M 11:00am - 2:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0103	Neil Goldsman W 10:00am - 10:50am M 2:00pm - 5:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0104	Neil Goldsman W 10:00am - 10:50am Tu 8:00am - 11:00am	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0105	Neil Goldsman W 10:00am - 10:50am Th 8:00am - 11:00am	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0106	Neil Goldsman W 10:00am - 10:50am F 8:00am - 11:00am	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0107	Neil Goldsman W 10:00am - 10:50am F 11:00am - 2:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0108	Neil Goldsman W 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0109	Neil Goldsman W 10:00am - 10:50am Th 2:00pm - 5:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0110	Neil Goldsman W 10:00am - 10:50am Tu 2:00pm - 5:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab

0111	Neil Goldsman W 10:00am - 10:50am Tu 11:00am - 2:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab
0112	Neil Goldsman W 10:00am - 10:50am F 2:00pm - 5:00pm	Seats (Total: 12) PHY 1412 AVW 1330	 Lab

ENEE313 **Introduction to Device Physics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Agisilaos Iliadis TuTh 11:00am - 12:15pm M 2:00pm - 2:50pm	Seats (Total: 25) KEB 1110 EGR 3102	 Discussion
0102	Agisilaos Iliadis TuTh 11:00am - 12:15pm M 3:00pm - 3:50pm	Seats (Total: 25) KEB 1110 EGR 3102	 Discussion
0201	Kevin Daniels MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 25) EGR 0135 CHE 2145	 Discussion

ENEE322 **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

ENEE majors (09090) only.

0101	Carol Espy-Wilson MW 2:00pm - 3:15pm Tu 2:00pm - 2:50pm	Seats (Total: 25) ITV 1111 EGR 2116	 Discussion
0201	Adrianos Papamarcou TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 25) JMP 2121 EGR 1102	 Discussion
0202	Adrianos Papamarcou TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 25) JMP 2121 EGR 1102	 Discussion
0301	Mark Shayman TuTh 3:30pm - 4:45pm M 9:00am - 9:50am	Seats (Total: 25) EGR 1108 EGR 2154	 Discussion
0302	Mark Shayman TuTh 3:30pm - 4:45pm M 10:00am - 10:50am	Seats (Total: 25) EGR 1108 EGR 2154	 Discussion

ENEE322H **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

0101	Andre Tits TuTh 3:30pm - 4:45pm M 11:00am - 11:50am	Seats (Total: 15) EGR 1110 EGR 3114	 Discussion

ENEE324 **Engineering Probability**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE322; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

ENEE majors (09090) only.

0102	Anthony Ephremides MW 2:00pm - 3:15pm Tu 9:00am - 9:50am	Seats (Total: 25) CHE 2118 CHM 0124	Discussion
0201	Mark Shayman TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 25) EGR 1108 EGR 2116	Discussion
0202	Mark Shayman TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 25) EGR 1108 EGR 2116	Discussion
0301	Michael Rotkowitz TuTh 3:30pm - 4:45pm W 2:00pm - 2:50pm	Seats (Total: 25) ITV 1111 SYM 0209	Discussion

ENEE350 **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only

0101	Charles Silio MW 11:00am - 12:15pm Th 8:00am - 8:50am	Seats (Total: 25) KEB 1110 CHM 0119	Discussion
0102	Charles Silio MW 11:00am - 12:15pm Th 9:00am - 9:50am	Seats (Total: 25) KEB 1110 CHM 0119	Discussion
0201	Manoj Franklin TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 25) JMP 3201 PLS 1115	Discussion
0202	Manoj Franklin TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 25) JMP 3201 EGR 1102	Discussion
0301	Rajeev Barua MW 2:00pm - 3:15pm Th 12:00pm - 12:50pm	Seats (Total: 20) KEB 1200 EGR 0135	Discussion
0302	Rajeev Barua MW 2:00pm - 3:15pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEB 1200 EGR 3106	Discussion

ENEE350H **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

For general honors students only.

0101	Rajeev Barua MW 2:00pm - 3:15pm Th 2:00pm - 2:50pm	Seats (Total: 15) KEB 1200 MTH 0304	Discussion

ENEE359F **Intermediate Topics in Computer Engineering; Advanced FPGA System Design using Verilog**

(Perm req)

Credits: 3 Grading Method: Regular

Selected intermediate level topics in computer engineering.

Based on the skills developed in ENEE245, students will further expand their skill set by working on more advanced digital system design using Verilog hardware description language (HDL) in an industry-standard design environment. They will implement real-world designs in a field programmable gate array (FPGA) as well as test and optimize the FPGA-implemented systems. Students will also work in teams on medium- scale digital system design projects and make oral presentations and written reports.

0101	Jerry Wu Tu 12:30pm - 1:45pm Th 1:00pm - 3:50pm	Seats (Total: 12) AVW 2446 AVW 2446	 Lab

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ENEE380 **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and minimum grade of C- in MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

ENEE majors (09090) only.

0101	Leonard Taylor MW 12:30pm - 1:45pm Tu 9:00am - 9:50am	Seats (Total: 20) EGR 1108 EGR 2154	 Discussion
0102	Leonard Taylor MW 12:30pm - 1:45pm Tu 10:00am - 10:50am	Seats (Total: 20) EGR 1108 EGR 2154	 Discussion
0201	Wesley Lawson TuTh 11:00am - 12:15pm W 2:00pm - 2:50pm	Seats (Total: 25) ATL 1113 MTH 0102	 Discussion

0202	Wesley Lawson TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 25) ATL 1113 EGR 2154	 Discussion

ENEE380H **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and minimum grade of C- in MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

0101	Wesley Lawson TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 20) ATL 1113 EGR 1102	 Discussion

ENEE381 **Electromagnetic Wave Propagation**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE380; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

ENEE majors only (09090).

0101	Howard Milchberg MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 25) PHY 1204 EGR 3114	 Discussion
0102	Howard Milchberg MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 25) PHY 1204 EGR 1104	 Discussion

0202	Danilo Romero	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	CSI 2118	
	W 9:00am - 9:50am	EGR 1104	Discussion

ENEE407 **Design & Testing of RF and Microwave Devices**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE381; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical) ; and permission of ENGR-Electrical & Computer Engineering department.

An introduction to state of the art design, and testing techniques of RF and microwave devices. Designs, simulations and layout of different devices are performed using the software package ADS (Advance Design System). The course highlights wide range of engineering applications including terrestrial microwave links, satellite communications, broadcasting, mobile communications and radar.

0101	Kawthar Zaki	Seats (Total: 12)	
	Tu 11:00am - 11:50am	AVW 2446	
	Th 9:30am - 12:30pm	AVW 2446	Lab

ENEE408A **Capstone Design Project:Microprocessor-Based Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENEE440 or permission of the instructor. This course provides a team-based experience in the design and implementation of a microprocessor-based system to solve a real-world problem. A product specification or client requirement forms the basis for the student teams development of an initial technical design specification. The team then divides into smaller groups for the parallel development of hardware and software subsystems of the product device. Upon completion and test of the various subsystems, software and hardware components are integrated into the system prototype and the system is tested and documented.

0101	William Hawkins	Seats (Total: 12)	
	Th 9:30am - 10:20am	EGR 3114	
	Contact instructor or department for details.		

ENEE408C **Capstone Design Project: Modern Digital System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite(s): ENEE 350. Corequisite(s): ENEE 446 (Recommended) A real-world digital system design experience that prepares students for careers in FPGA and ASIC design. Student teams use the Verilog hardware description language together with industry-standard simulation and synthesis tools to design medium-complexity digital chips that are ultimately configured and tested on FPGAs with real-world applications. Results from these projects will be presented through in-class presentations and written reports.

0101	Shuvra Bhattacharyya	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	KEB 2107	
	Th 2:00pm - 4:50pm	KEB 2107	Lab

ENEE408E **Capstone Design Project: Optical System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite(s): ENEE 380. Corequisite(s): ENEE 381. The purpose of this course is to teach optical analysis and design techniques by reference to the performance of many different optical components and systems. Attention will be given to real world design in terms of component selection, optimization, and integration into systems

0101	Christopher Davis	Seats (Total: 35)
	MW 11:00am - 12:15pm	EGR 2154

ENEE408I **Capstone Design Project: Autonomous Control of Interacting Robots**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: ENEE322 Electrical or Computer Engineering seniors in their last year. The course involves students in the design,development, and application of autonomous robotic systems.The robots are 4 wheeled vehicles with on-board sensors (cameras, acoustic sensors),computers and wireless communications capabilities. The students work in teams to program the robots to accomplish a task individually and in teams of 2 or more robots. Applications vary from semester to semester, including racing with passing, soccer, search and identify.

0101	Gilmer Blankenship	Seats (Total: 15)	
	M 10:00am - 10:50am	EGR 2116	
	W 11:00am - 1:50pm	KEB 3209	Lab
0102	Gilmer Blankenship	Seats (Total: 15)	
	M 10:00am - 10:50am	EGR 2116	
	W 2:00pm - 4:50pm	KEB 3209	Lab

ENEE408L **Capstone Design Project; Electric Guitar Design**

Credits: 3 Grading Method: Regular

Culmination of prior course work in electrical and computer engineering Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are currently offered include: microprocessor-based systems, digital systems, VLSI design (both digital and mixed-signal), and optical systems.

Prerequisites: ENEE205, ENEE245, ENEE303, ENEE307. Electrical or Computer Engineering majors in their final year of their program. Restriction: Permission of Electrical & Computer Engineering Department required. Modern electric guitars contain both EE and CE components; the fundamentals are EE-based, but an increasing number of current designs incorporate CE-based concepts such as active digital control circuits, digital signal processors, and many embedded digital effects units. This class will teach the skills necessary for good product design and development in the real world, using as a motivating example the electric guitar, and integrating computer-engineering skills and concepts.

0101	Bruce Jacob	Seats (Total: 12)	
	W 10:00am - 10:50am	AVW 1424	
	W 11:00am - 1:50pm	AVW 1424	Lab

ENEE411 **Advanced Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department. Credit only granted for: ENEE411 or ENEE419A. Formerly: ENEE419A.

Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.

0101	Pamela Abshire	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	EGR 0135	

ENEE416 **Integrated Circuit Fabrication Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE419J.

Characterization of wafers and fabrication steps. Oxide growth, lithography, dopant diffusion, and metal deposition and patterning will be discussed in the lectures and carried out in the lab in fabricating NMOS transistor circuits. The transistor characteristics will be measured and related to the fabrication parameters.

0101	Reza Ghodssi Th 11:00am - 12:15pm Tu 9:00am - 12:00pm	Seats (Total: 5) JMP 1109 KEB 2300	 Lab
0102	Reza Ghodssi Th 11:00am - 12:15pm W 12:30pm - 3:30pm	Seats (Total: 5) JMP 1109 KEB 2300	 Lab
0103	Reza Ghodssi Th 11:00am - 12:15pm M 12:30pm - 3:30pm	Seats (Total: 5) JMP 1109 KEB 2300	 Lab
0104	Reza Ghodssi Th 11:00am - 12:15pm W 9:00am - 12:00pm	Seats (Total: 5) JMP 1109 KEB 2300	 Lab
0105	Reza Ghodssi Th 11:00am - 12:15pm F 9:00am - 12:00pm	Seats (Total: 5) JMP 1109 KEB 2300	 Lab

ENEE420 **Communication Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE324; and completion of all lower-division technical courses in the EE curriculum.

Fourier series, Fourier transforms and linear system analysis; random signals, autocorrelation functions and power spectral densities; analog communication systems: amplitude modulation, single-sideband modulation, frequency and phase modulation, sampling theorem and pulse-amplitude modulation; digital communication systems pulse-code modulation, phase-shift keying, differential phase shift keying, frequency shift keying; performance of analog and digital communication systems in the presence of noise.

ENEE majors (09090) only.

0101	Sennur Ulukus MW 12:30pm - 1:45pm	Seats (Total: 30) CHE 2136

ENEE425 **Digital Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Sampling as a modulation process; aliasing; the sampling theorem; the Z-transform and discrete-time system analysis; direct and computer-aided design of recursive and nonrecursive digital filters; the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT); digital filtering using the FFT; analog-to-digital and digital-to analog conversion; effects of quantization and finite-word-length arithmetic.

ENEE majors (09090) only.

0101	Raghuveer Rao MW 11:00am - 12:15pm	Seats (Total: 40) HBK 0109	

ENEE428 **Communications Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

EE capstone design course. Exploring the signal processing and communication systems theoretical concepts presented in ENEE 420 Communication Systems and ENEE 425 Digital Signal Processing by implementing them on actual DSP based hardware in real time.

Prerequisite: ENEE324; Corequisite: ENEE425 or ENEE420. This course explores the signal processing and communication system theoretical concepts presented in ENEE 322 Signals and Systems, ENEE 324 Engineering Probability, ENEE 420 Communication Systems, and ENEE 425 Digital Signal Processing by implementing them on actual hardware in real time. In the process, students gain experience using equipment commonly used in industry, such as, oscilloscopes, spectrum analyzers, error rate test sets, channel simulators, digital signal processors, analog-to-digital and digital-to-analog converters, and signal generators. The experiments are based on using a Texas Instruments TMS320C6713 DSP Starter Kit (DSK) stand-alone board that communicates with the PC through a USB port.

0101	Steven Tretter W 10:00am - 10:50am F 9:00am - 12:00pm	Seats (Total: 8) EGR 1110 AVW 1366	 Lab
0102	Steven Tretter W 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 8) EGR 1110 AVW 1366	 Lab

ENEE440 **Microprocessors**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Microprocessor architectures, instruction sets, and applications. Bus structures, memory, I/O interfacing. Assembly language programming, LSI device configuration, and the embedding of microprocessors in systems.

ENEE majors only (09090).

0101	William Hawkins	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	EGR 3106

ENEE445 **Computer Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in ENEE350; and must have earned a minimum grade of regular (letter) C- in all 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

This laboratory course focuses on the hardware/software interface in computer systems. Hand-on experiments are used to teach design, construction, analysis, and measurement of both hardware and software for embedded systems. Projects emphasize using microcontrollers for control, sensing, and communication through various I/O devices.

0101	William Hawkins	Seats (Total: 12)	
	Tu 12:30pm - 1:20pm	EGR 3114	
	Th 2:00pm - 5:00pm	AVW 1454	Lab

ENEE446 **Digital Computer Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower-division technical courses in the EE curriculum. Restriction: Permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENEE446 or CMSC411.

Hardware design of digital computers. Arithmetic and logic units, adders, multipliers and dividers. Floating-point arithmetic units. Bus and register structures. Control units, both hardwired and microprogrammed. Index registers, stacks, and other addressing schemes. Interrupts, DMA and interfacing.

ENEE majors (09090) only.

0101	Manoj Franklin MW 2:00pm - 3:15pm	Seats (Total: 60) SYM 0200

ENEE457 **Computer Systems Security**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE350; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: CMSC414, ENEE459C or ENEE457. Formerly: ENEE459C.

Theoretical and practical aspects of computer systems security. Topics covered include symmetric/asymmetric encryption, message authentication, digital signatures, access control, as well as network security, web security and cloud security. Students acquire tools necessary for designing secure computer systems and programs and for defending against malicious threats (e.g., viruses, worms, denial of service).

0101	Dana Dachman-Soled MW 11:00am - 12:15pm	Seats (Total: 55) EGR 1108

ENEE459A **Topics in Computer Engineering; CAD Tools**

(Perm req)

Credits: 1 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: ENEE245 Verilog or VDHL hardware description languages (HDLs) and graphical printed ciruit design CAD packages are used to create a digital system implemented on a printed circuit-board. A practical design for hardware incorporating a processor and interface devices is to be created by the student. Simulation is used to explore practical issues of system performance and device resource constraints, and a printed-circuit board proof-of-concept will be produced by the student.

0101	William Hawkins Tu 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 12) EGR 3114
0201	William Hawkins Th 12:30pm - 1:45pm Contact instructor or department for details.	Seats (Total: 12) EGR 3114

ENEE459B **Topics in Computer Engineering; Reverse Engineering and Hardware Security Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prequisite: ENEE244, ENEE245, and ENEEE350 or permission of the instructor.

0101	Gang Qu	Seats (Total: 24)	
	Tu 5:00pm - 6:15pm Th 5:00pm - 7:00pm	KEB 1110 AVW 2446	Lab
0102	Gang Qu	Seats (Total: 24)	
	Tu 5:00pm - 6:15pm W 5:00pm - 7:00pm	KEB 1110 AVW 2446	Lab

ENEE459I **Topics in Computer Engineering; Introduction to Cyber-Physical Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: ENEE350, ENEE322. Also offered as ENEE759I. Credit granted for ENEE459I or ENEE759I. Modeling, design, and verification of cyber-physical systems. Students will learn how to design embedded software algorithms that interact with physical processes to satisfy desired specifications. Topics covered include models of computation, specifications, temporal logic, reachability analysis, model checking, and execution time analysis. The course is accompanied by a set of labs and semester-long projects to give hands-on experience on the covered material.

0101	Yasser Shoukry	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm Contact instructor or department for details.	ITV 1111	

ENEE460 **Control Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in Engineering: Electrical program.

Mathematical models for control system components. Transform and time domain methods for linear control systems. Introductory stability theory. Root locus, bode diagrams and Nyquist plots. Design specifications in the time and frequency domains. Compensation design in the time and frequency domain. Introduction to sampled data systems.

ENEE majors (09090) only.

0101	Steven Marcus	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	CSI 2118	
	F 9:00am - 9:50am	CSI 2118	Discussion

ENEE474 **Power Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Interconnected power systems, transmission lines, load flow studies, unit commitment and economic dispatch. Three phase networks, machine models. Symmetrical components, fault analysis and unbalanced operation. Power system transients, stability and numerical methods in power system analysis.

0101	Isaak Mayergoyz	Seats (Total: 75)	
	TuTh 2:00pm - 3:15pm	KEB 1110	

ENEE476 **Renewable Energy**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and completion of all lower-divisions ENEE courses with a C- or better. Restriction: Permission of ENGR-Electrical & Computer Engineering department; and must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE419R or ENEE476. Formerly: ENEE419R.

Solar Energy Conversion Systems: History of Photovoltaic (PV) Systems, PV Cell, Module and Array Models and Equivalent Circuits, Characteristic Resistance, Fill Factor, Effects of Parasitic Resistances, Mismatch Effects, Shading, Bypass Diodes, Sun Tracking Systems, Maximum Power Point Tracking (MPPT) Techniques, Isolated and Non-isolated Switch-mode DC/DC for PV Systems, Inverter Design and Control, Sizing the PV Panel and Battery Pack in PV Applications. Wind Energy Conversion Systems: Introduction to Wind Energy Harvesting, Horizontal and Vertical Wind Systems, Fundamentals of Wind Energy Harvesting Systems, Variable Speed and Fixed Speed Wind Energy Conversion Systems (WECS), Wind Turbines and Different Electrical Machines in Wind Applications, Induction Machine and Dynamic Model of Induction Machines, Synchronous Generators and Dynamic Model of SG, Control of Wind Energy Conversion Systems.

0101	Alireza Khaligh	Seats (Total: 59)	
	MW 3:30pm - 4:45pm	EGR 1108	

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Prerequisite: permission of department.

1301	Perinkulam Krishnaprasad Contact instructor or department for details.	Seats (Total: 3)
1501	William Levine Contact instructor or department for details.	Seats (Total: 3)
1801	Robert Newcomb Contact instructor or department for details.	Seats (Total: 3)
2801	Donald Yeung Contact instructor or department for details.	Seats (Total: 3)
4201	Romel Gomez Contact instructor or department for details.	Seats (Total: 3)
5301	Julius Goldhar Contact instructor or department for details.	Seats (Total: 5)
5601	Jonathan Simon Contact instructor or department for details.	Seats (Total: 10)
6901	Neil Goldsman Contact instructor or department for details.	Seats (Total: 3)
7001	Wesley Lawson Contact instructor or department for details.	Seats (Total: 5)
9801	Jeremy Munday Contact instructor or department for details.	Seats (Total: 10)

ENEE489I **Topics in Electrophysics; Solar Energy Conversion**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrophysics.

Prerequisite: Completion of MATH241, MATH246, PHYS270/271, ENEE313, and ENEE381; or permission of Department. This course is designed to provide a fundamental understanding of energy conversion processes from solar illumination. The beginning of the course will focus on traditional topics including photovoltaic solar cells and solar thermal devices. We will discuss thermodynamic limits, device physics, and the optics and photonics of such devices. The latter part course will focus on future generation techniques, including multijunction and multi-exciton generation, as well as more speculative conversion processes, such as rectifying antennas.

0101	Jeremy Munday	Seats (Total: 30)
	MW 12:30pm - 1:45pm	EGR 0135

ENEE490 **Physical Principles of Wireless Communications**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE381. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE490 or ENEE498B. Formerly: ENEE498B.

0101	Sergio Picozzi	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 2107

ENEE499 **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

ENEE majors (09090) only.

Contact department for information to register for this course.

ENEE499L **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499R **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE600 **Solid State Electronics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE413; and must have background in elementary quantum mechanics. Credit only granted for: ENEE600 or ENEE793. Formerly: ENEE793.

Properties of crystals; energy bands: electron transport theory; conductivity and hall effect; statistical distributions; fermi level: impurities; non-equilibrium carrier distributions; normal modes of lattice vibration and thermal properties of crystals; tunneling phenomena; surface properties.

0101	Agisilaos Iliadis	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	EGR 3114

ENEE610 **Electrical Network Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate-level Circuit Theory; or permission of instructor.

Matrix algebra, network elements, ports, passivity and activity, geometrical and analytical descriptions of networks, state variable characterizations, scattering matrices, signal flow graphs, sensitivity.

0101	Robert Newcomb	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	EGR 3106	

ENEE614 **Radio Frequency VLSI Circuit Design**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENEE611.

This course will give students the knowledge required to analyze, desig and lay-out discrete and integrated circuits used in modern radio frequency communications. The course will focus on advanced amplifier concepts, frequency conversion, tuning, and low-noise techniques. Implementation of AM, FM and digital modulation techniques will be covered. Emphasis will be given to CMOS technology as applied to analog VLSI. Advanced applications of SPICE and VLSI design layout tools will be covered.

0101	Neil Goldsman	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	EGR 3114	

ENEE620 **Random Processes in Communication and Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.

Introduction to random processes: characterization, classification, representation; Gaussian and other examples. Linear operations on random processes, stationary processes: covariance function and spectral density. Linear least square waveform estimating Wiener-Kolmogroff filtering, Kalman-Bucy recursive filtering: function space characterization, non-linear operations on random processes.

0101	Armand Makowski	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	EGR 1108	
	F 11:00am - 11:50am	CSI 2118	Discussion

ENEE630 **Advanced Digital Signal Processing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE425. Corequisite: ENEE620. Credit only granted for: ENEE624 or ENEE630. Formerly: ENEE624.

This is the first-year graduate course in signal processing. The objective is to establish fundamental concepts of signal processing on multirate processing, parametric modeling, linear prediction theory, modern spectral estimation, and high-resolution techniques.

0101	KJ Ray Liu	Seats (Total: 40)	
	MW 3:30pm - 4:45pm	ANS 0412	
	Tu 5:00pm - 5:50pm	KEB 1200	Discussion

ENEE633 **Statistical Pattern Recognition**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department; or permission of instructor. Corequisite: ENEE620; or permission of instructor. Credit only granted for: ENEE633 or ENEE739Q. Formerly: ENEE739Q.

The goal is to introduce mathematical pattern analysis and recognition. Emphasis is given to parametric and non-parametric statistical pattern recognition methods and clustering with applications to speech, image and video recognition.

0101	Ramalingam Chellappa	Seats (Total: 75)
	MW 11:00am - 12:15pm	ATL 1113

ENEE641 **Mathematical Foundations for Computer Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENEE641 or ENEE759F. Formerly: ENEE759F.

Mathematical modeling, design, analysis and proof techniques related to computer engineering. Probability, logic, combinatorics, set theory, and graph theory, as they pertain to the design and performance of computer engineering systems. Techniques for the design and analysis of efficient computational methods from graph theory and networks. Understanding of the limits on the efficiency of such computational methods. Translation from mathematical theory to actual programming. The course emphasizes mathematical rigor.

0101	Uzi Vishkin	Seats (Total: 50)
	MW 12:30pm - 1:45pm	ATL 2428

ENEE646 **Digital Computer Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.

Concepts and techniques for design of computer systems with improved performance. Advanced I/O systems, memory organization, pipeland and parallel processors, bus bandwidth, processor/memory interconnections, cache memory, virtual memory, multiprocessors, performance evaluation.

0101	Bruce Jacob	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	ATL 2428

ENEE657 **Computer Security**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE457 or CMSC414; or students who have taken courses with comparable content may contact the department.

An introduction to the principles of building secure systems. Topics include operating system (OS) security, secure network communications, software security, real-world attacks, applied cryptography, and hardware security. Within these topics, the course emphasizes the cross-cutting concerns of attacks, defenses and measurement.

0101	Tudor Dumitras	Seats (Total: 50)
	MW 3:30pm - 4:45pm	PHY 1204

ENEE660 **System Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE460 and MATH463; or students who have taken courses with comparable content may contact the department.

General systems models. State variables and state space. Linearity and its implications. Controllability and observability. State space structure and representation. Realization theory and algorithmic solutions. Parameterizations of linear systems; canonical forms. Basic results from stability theory. Stabilizability. Fine structure of linear multivariable systems; minimal indices and polynomial matrices. Interplay between frequency domain and state space.

0101	John Baras	Seats (Total: 30)
	MW 12:30pm - 1:45pm	EGR 2154

ENEE662 **Convex Optimization**

Credits: 3

Grading Method: Regular, Audit

Recommended: MATH410. Credit only granted for: ENEE759F or ENEE662.

Focuses on recognizing, solving, and analyzing convex optimization problems. Convex sets, convex functions, convex and quasi-convex optimization problems. Duality theory and optimality conditions. Specific classes of problems including linear optimization (LP), semi-definite optimization (SDP), geometric programming. Algorithms for unconstrained and constrained optimization; interior-point methods. Applications in controls, communications, signal processing, statistics, and other areas.

0101	Richard La	Seats (Total: 40)
	MW 2:00pm - 3:15pm	CHM 1224

ENEE680 Electromagnetic Theory I

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Theoretical analysis and engineering applications of Maxwell's equations. Boundary value problems of electrostatics and magnetostatics.

0101	Mohammad Hafezi	Seats (Total: 25)
	MW 3:30pm - 4:45pm	ATL 2316

ENEE690 Quantum and Wave Phenomena with Electrical Application

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Introduction of quantum and wave phenomena from electrical engineering point of view. Topics included: general principles of quantum mechanics, operator algebra, the microwave resonant cavity and the analagous potential well problem, harmonic oscillator, hydrogenic atom. Perturbation method applied to the transmission line and potential well problems. Periodically loaded transmission line and Kronig-Penny model of band theory.

0101	Edo Waks	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CSI 2118

ENEE698C Graduate Seminar; Controls

Credits: 1-2

Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Steven Marcus	Seats (Total: 20)
	Th 2:00pm - 4:00pm	AVW 2168

ENEE698E **Graduate Seminar; Microelectronics**

Credits: 1-2

Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Robert Newcomb	Seats (Total: 20)
	Tu 5:00pm - 5:50pm	EGR 1110

ENEE698Q **Graduate Seminar; Colloquium Series**

Credits: 1

Grading Method: Regular

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Ramalingam Chellappa	Seats (Total: 80)
	F 3:30pm - 4:30pm	KEB 1110

ENEE698T **Graduate Seminar; Intellectual Property Seminar for Engineers and Management**

Credits: 1

Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Michael Oblon	Seats (Total: 30)
	Tu 6:15pm - 8:15pm	EGR 2116

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE759I **Advanced Topics in Computer Engineering; Introduction to Cyber-Physical Systems**

Credits: 3

Grading Method: Regular, Audit

Topics, as announced every semester, from the field of computer engineering and its applications.

Prerequisite: ENEE350, ENEE322. Also offered as ENEE759I. Credit granted for ENEE459I or ENEE759I. Modeling, design, and verification of cyber-physical systems. Students will learn how to design embedded software algorithms that interact with physical processes to satisfy desired specifications. Topics covered include models of computation, specifications, temporal logic, reachability analysis, model checking, and execution time analysis. The course is accompanied by a set of labs and semester-long projects to give hands-on experience on the covered material.

0101	Yasser Shoukry	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm Contact instructor or department for details.	ITV 1111

ENEE765 **Adaptive Control**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE660 and ENEE664; or students who have taken courses with comparable content may contact the department.

General principles of adaptive control. Self-tuning regulators and mode reference adaptive systems. Theoretical issues: stability, convergence, and robustness. Practical issues: implementation, computation, auto-tuning, and other successful application. Alternatives to adaptive control.

0101	Perinkulam Krishnaprasad	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	CSI 2118

ENEE769E **Advanced Topics in Controls; Game Theory: Dynamic and Evolutionary**

Credits: 3

Grading Method: Regular, Audit

Topics selected, as announced every semester, from the field of controls and its applications.

0101	Nuno Martins	Seats (Total: 20)
	MW 3:30pm - 4:45pm	CHM 1224

ENEE789C **Advanced Topics in Electrophysics; Solar Energy Conversion**

Credits: 3 Grading Method: Regular, Audit

Topics selected, as announced every semester, from the field of electrophysics and its applications.

0101	Jeremy Munday	Seats (Total: 10)
	MW 12:30pm - 1:45pm	EGR 0135

ENEE789O **Advanced Topics in Electrophysics**

Credits: 3 Grading Method: Regular, Audit

Topics selected, as announced every semester, from the field of electrophysics and its applications.

0101	Edward Ott	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	CSI 2118

ENEE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENEE889 **Teaching Workshop**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Fall 2017

ENES100 **Introduction to Engineering Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

Credit granted for ENES100 or ENES100A.

0101	Evandro Valente MW 8:00am - 9:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 34) JMP 1215 ONLINE
0301	Liangbing Hu MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE
0302	Evandro Valente MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1215 ONLINE
0401	Michael Galczynski TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE
0402	Ayush Gupta TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1215 ONLINE

0501	John Cumings MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1116 ONLINE
0502	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 39) JMP 1215 ONLINE
0601	Patrick McAvoy TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1116 ONLINE
0602	Brian Phillips TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0701	Peter Sunderland MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1116 ONLINE
0702	Kristen Hines MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1215 ONLINE
0801	Wesley Lawson TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 38) JMP 1116 ONLINE
0802	Romel Gomez TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE

ENES100A **Introduction to Engineering Design**

(Perm req) | Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

0101	Evandro Valente MW 8:00am - 9:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 6) JMP 1215 ONLINE
0302	Evandro Valente MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1215 ONLINE
0402	Ayush Gupta TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1215 ONLINE
0501	John Cumings MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1116 ONLINE
0502	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 1) JMP 1215 ONLINE
0601	Patrick McAvoy TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1116 ONLINE
0701	Peter Sunderland MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1116 ONLINE
0702	Kristen Hines MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1215 ONLINE

0801	Wesley Lawson TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) JMP 1116 ONLINE	

ENES102 **Mechanics I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Thomas Beigel MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 57) EGR 1108 EGR 1108	 Discussion
0102	Michael Galczynski MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 53) ATL 2428 SPH 1302	 Discussion
0104	Jackelyn Lopez Roshwalb TuTh 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 57) CHE 2110 SPH 1303	 Discussion
0106	Chandrasekhar Thamire MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 55) SPH 1303 SPH 1302	 Discussion

ENES102H **Mechanics I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Gary Pertmer MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 53) CHM 2201 CHM 2201	 Discussion
0301	Gary Pertmer MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) SPH 0302 PHY 4221	 Discussion

ENES113 **Virtus Living and Learning Community Seminar I**

Credits: 1 Grading Method: Regular

Restriction: Must be in first year Virtus program.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to basic tools, undergraduate research opportunities, and campus and engineering resources.

0101	Michael Galczynski W 4:00pm - 5:30pm	Seats (Total: 65) MCB 1207

ENES115 **FLEXUS Living and Learning Community Seminar I**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first year FLEXUS Participant.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to campus and engineering resources, basic tools, and undergraduate research opportunities. Students will discuss issues of concern through a variety of book readings, self-reflections, and panel discussions with practicing women engineers.

0101	Elaine Petro, Shannon Felice, Julia Anderson W 4:00pm - 5:30pm	Seats (Total: 65) BPS 1243

ENES140 **Discovering New Ventures**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.

Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.

0101	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0201	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0301	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0401	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0501	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0601	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0701	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE
0801	James Green Class time/details on ELMs	Seats (Total: 275) ONLINE

ENES181 **Dialogue with the Dean**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must be a new freshman or transfer student.

Introduction to the various fields of engineering and the necessary context for students to fully engage in selected National Academy of Engineering's Grand Challenges such as economical solar energy, carbon sequestration, access to clean water, engineering better medicines, restoring urban infrastructure and personalized learning. The lectures and activities will provide an introduction to the engineering disciplines, NAE Grand Challenges, STEM cultures, and research.

0101	Darryll Pines	Seats (Total: 100)	
	W 4:00pm - 4:50pm	KEB 1110	

ENES190H **Introduction to Design and Quality**

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: Must be in the Quest program. Also offered as: BMGT190. Credit only granted for: BMGT190 or ENES190.

Expose engineering and business students to the principles of total quality, using experiential team learning and technology aided approaches. The first of four courses in total quality.

First course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students. Also offered as ENES190H.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Pamela Armstrong	Seats (Total: 45)	
	TuTh 12:30pm - 1:45pm	ESJ 2212	
	W 7:00pm - 8:50pm	VMH 1412	Discussion

ENES210 **Entrepreneurial Opportunity Analysis and Decision-Making in 21st Century Technology Ventures**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP, SCIS

Credit only granted for: ENES210 or ENES461.

This multi-disciplinary course helps students learn the principles of entrepreneurial opportunity analysis and decision-making in an increasingly dynamic and technically-inclined society. Emphasis is placed on how aspiring technology entrepreneurs can develop their entrepreneurial perspectives to develop winning entrepreneurial plans for their future ventures.

0101	James Green	Seats (Total: 350)	
	Class time/details on ELMs	ONLINE	

0201	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0301	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0401	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0501	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0601	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0701	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
0801	James Green Class time/details on ELMs	Seats (Total: 350) ONLINE
FC01	Michael Pratt MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 150) MMH 1400

ENES211 **Introduction to Global Entrepreneurship**

(Perm req)

Credits: 1 Grading Method: Regular

Examines the opportunities and challenges of entrepreneurship and innovation from an international perspective through lectures, case studies, instructors, and guest speakers with international experiences and other relevant activities. Focuses on the benefit for every entrepreneur and innovator to understand the cultural, strategic and operational aspects related to conducting entrepreneurial ventures in an international context.

0101	Ryan Elza **Meets October 15, 2017 - December 11, 2017** M 6:00pm - 6:50pm Class time/details on ELMs	Seats (Total: 10) HJP 3120 ONLINE	 Discussion

ENES213 **Virtus Living and Learning Community Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: ENES113. Restriction: Must be a participant in the second year of the Virtus program.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking and mentoring and developing awareness of diversity issues.

0101	Elizabeth Kurban, Gregory Stinson Th 4:00pm - 5:15pm	Seats (Total: 45) PHY 1402
0201	Gregory Stinson, Elizabeth Kurban Contact instructor or department for details.	Seats (Total: 20)

ENES215 **FLEXUS Living and Learning Community Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: ENES115 and ENES116. Restriction: Must be a second year FLEXUS participant.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing self-confidence and self-efficacy in academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking, mentoring and role modeling, and developing awareness of diversity issues, specifically gender diversity.

0101	Julia Anderson, Mary Bowden Th 4:00pm - 5:15pm	Seats (Total: 49) BPS 1236
0102	Julia Anderson, Mary Bowden Contact instructor or department for details.	Seats (Total: 30)

ENES220 **Mechanics II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

Prerequisite: student in the College of Engineering.

0101	Peter Chang MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) HBK 0115 CSI 1121	 Discussion
0201	William Fourney MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 60) ANS 0408 CHE 2110	 Discussion
0301	Robert Bonenberger MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 55) CHM 0115 EGR 0108	 Discussion
0401	Thomas Beigel MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) JMP 3201 EGR 1108	 Discussion
0501	Robert Bonenberger MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 60) EGR 0108 MCB 1207	 Discussion
0601	Thomas Beigel MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 60) EGR 0108 EGR 1108	 Discussion

ENES221 **Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

0101	Patrick McAvoy MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 53) CHM 2201 KEB 1110	Discussion
0102	Stephen Kamakaris MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) TYD 1132 HBK 0115	Discussion
0103	Patrick McAvoy MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) TYD 1118 ANS 0408	Discussion
0104	Kevin Calabro MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 50) TYD 1118 CSI 1121	Discussion
0107	Kevin Calabro MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 53) SKN 0104 CHM 2201	Discussion

ENES232 **Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Kristen Hines MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 63) KEB 1200 KEB 1200	Discussion
0301	Raymond Sedwick MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 63) KEB 1200 KEB 1110	Discussion

ENES304 **RISE Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in the Engineering RISE Leadership Program; and permission of ENGR-A. James Clark School of Engineering.

This is the first semester of a two semester sequence taken by RISE students in their first semester in the program. T he purpose of ENES 304 is for RISE students to learn about leadership, acquire leadership skills, and understand how to integrate leadership theories and concepts in engineering practice. There will be a mix of formal lectures by course faculty and lectures by distinguished speakers who can provide their own experience of what leadership means and how it is acquired. Students will explore their own leadership philosophy and leadership capacities in the context of group practice. Students will make meaning of general leadership theories and concepts and understand how to apply them to engineering industry. Students will also gain understanding of leadership through the stories shared by distinguished speakers with industrial, governmental and academic experience.

0101	Jane Fines, Ramsey Jabaji, Christopher Davis Tu 5:00pm - 5:50pm	Seats (Total: 52) JMP 3201

ENES390H **Systems Thinking for Managerial Decision Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190. Restriction: Must be in the QUEST program. Also offered as: BMGT390. Credit only granted for: BMGT390, BMGT498X, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST Honors Program students. Also offered as BMGT390H.

0101	Gerald Suarez MW 2:00pm - 3:15pm	Seats (Total: 45) ESJ 2309

ENES397 **Mentoring Design and Quality Teams**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

0101	Pamela Armstrong W 6:00pm - 8:50pm	Seats (Total: 16) VMH 1415

ENES424 **Engineering Leadership Capstone**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES472, ENCE320, and ENES317; and permission of ENGR-A. James Clark School of Engineering. Recommended: ENES100.

The work initiated in the Introduction to Engineering Leadership course brings together further exploration of leadership styles and concepts.

Restricted to students with a minor in Engineering Leadership Developmen t.

0101	Ramsey Jabaji Tu 5:00pm - 7:45pm	Seats (Total: 30) EGR 3106

ENES440 **Science, Technology and Society: Certificate Program Capstone**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Science, Technology and Society certificate program; or permission of ENGR-A. James Clark School of Engineering. Credit only granted for: ENES440 or UNIV401. Formerly: UNIV401.

Capstone research seminar for students in the Science, Technology and Society certificate program.

0101	David Tomblin Contact instructor or department for details.	Seats (Total: 10)

ENES461 **Advanced Entrepreneurial Opportunity Analysis in Technology Ventures**

Credits: 3 Grading Method: Regular

Credit only granted for: ENES210 or ENES461.

Explores the factors that influence entrepreneurial opportunity analysis in technology-based ventures. Uses a cognitive theoretical framework to examine the integration of motivation, emotions and information processing modes to make complex entrepreneurial decisions in technology venture environments.

0101	Michael Pratt, James Green	Seats (Total: 90)
	TuTh 5:00pm - 6:15pm	SCC 2121
	Restricted to students in the Hinman CEO program.	

ENES462 **Marketing High-Technology Products and Innovations**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Examines the opportunities and challenges of marketing high-technology products in turbulent environments requiring rapid decision making with incomplete information. Explores how innovations are introduced at frequent intervals, research-and-development spending is vital, and there are high mortality rates for both products and businesses.

0101	Olufunlola Koiki	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
	Restricted to students in the Minor in Technology Entrepreneurship.	

ENES467 **Engineering for Social Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not be in Engineering: Mechanical program; and junior standing or higher; and must be in a major in ENGR-A. James Clark School of Engineering. Also offered as: ENME467. Credit only granted for: ENES467 or ENME467.

Critical analysis of issues at the intersection of engineering, philanthropy and social change. How engineering design, products and processes have created social change in the past and will do so in the future through both intended and unintended consequences. Topics covered include energy, sustainability and climate change, autonomy, the digital future, low cost engineering, manufacturing, philanthropy, ethics and the impact of electronics on society, among others. Faculty and external experts will engage with students on these topics. Students will broadly engage with organizations involved in using technology for positive social impact.

0101	Davinder Anand	Seats (Total: 30)
	F 1:00pm - 3:40pm	KEB 1200

ENES471 **Legal Aspects of Entrepreneurship**

Credits: 3 Grading Method: Regular

Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Explores critical legal and business issues entrepreneurs face as they build and launch a new venture. Examines real world scenarios, and addresses the legal issues at all of the important junctures along the path to success. Significant attention placed on new venture formation, intellectual property management, and financing arrangements.

0101	Babak Akhlaghi, James Green	Seats (Total: 50)
	TuTh 5:00pm - 6:15pm	SQH 1120
	Restricted to students enrolled inthe Hinman CEOs Program (HCEO).	

ENES472 **International Business Cultures in Engineering and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Restriction: Sophomore standing or higher. Also offered as: SLLC472. Credit only granted for: ARHU439B, ARHU439E, ARHU439T, ENES472, SLLC471, SLLC472, or SLLC473. Formerly: ARHU439T.

The goal is to provide students with an understanding of cultural aspects pertaining to global business and engineering and develop the cultural understanding, attitudes, and communication skills needed to function appropriately within an increasingly global and multicultural working environment.

Restricted to students with the minor in international engineering (#EN01) and in engineering leadership development (#EN04). Students in global poverty (#AG06), in terrorism studies (#BS07), or in international development and conflict management (#BS02) may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a hold file.

BL01	Brian Dillehay	Seats (Total: 45)
	Th 6:00pm - 7:45pm Class time/details on ELMs	KEB 1200 ONLINE
	Restricted to students with the minor in international engineering and in engineering leadership development. Students in global poverty, in terrorism studies, or in international development and conflict management may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a holdfile.	

ENES480 **Engineering Honors Seminar I**

Credits: 1 Grading Method: Regular

Restriction: Must be in College of Engineering Honors; and junior standing or higher.

Introduction to engineering leadership, professionalism, and ethics. Discussions of leadership style, elements of success, professional communication, codes of ethics, handling of ethical dilemmas, and the characteristics of a professional.

0103	Richard McCuen	Seats (Total: 20)
	Tu 8:00am - 9:15am	EGR 3114

ENES489A **Special Topics in Engineering; Applied Quantitative Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in engineering.

Restricted to QUEST Honors Program students. Credit granted for BMGT438A or ENES489A.

0101	David Ashley	Seats (Total: 20)
	M 5:00pm - 7:40pm	VMH 1415

ENES489P **Special Topics in Engineering; Hands-on Systems Engineering Projects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in engineering.

This hands-on design projects course will expose senior-level undergraduates and graduate students from all areas of engineering to exciting career opportunities in the systems engineering field. Students will be introduced to the technical aspects of systems engineering practice through team-based project development and a systematic step-by-step procedure for product development that includes defining operations concepts, requirements gathering and organization, synthesis of models of system behavior and system structure, functional allocation to create system design alternatives, formal assessment of design alternatives through tradeoff analysis, and established approaches to testing and validation/verification. The students will be introduced to modern methods in Model-Based Systems Engineering, and industrial strength tools and environments for complex systems synthesis. Team projects may address problems from a wide variety of disciplines or cross-disciplines.

0101	John MacCarthy	Seats (Total: 40)	
	Tu 5:00pm - 6:15pm	CSI 2120	
	Th 3:30pm - 6:30pm	AVW 1442	Lab

ENES490H **Quest Consulting and Innovation Practicum**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: BMGT490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Fourth course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students.

0101	Jeffrey Herrmann	Seats (Total: 45)
	Tu 6:30pm - 9:10pm	HJP 2242
	Contact instructor or department for details.	

ENES491 **Defining Consulting and Innovation Projects**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

Also offered as BMGT491.

0101	Joseph Bailey	Seats (Total: 12)
	Tu 10:00am - 10:50am	VMH 4535
	F 10:00am - 11:40am	VMH 4535

ENES602 **Future Faculty Program Seminar II**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in the Clark School Future Faculty Program.

Effective teaching techniques. Basic principles of education and learning. Developing a course; promoting active learning, problem solving and critical thinking; designing exam and assignments; and communicating effectively with students.

This course is only open to students in the Clark School Future Faculty Program or by permission of Department.

0101	Teng Li	Seats (Total: 25)
	M 2:00pm - 3:15pm	MTH 0102

ENES604 **Future Faculty Program Teaching Practicum**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: ENES602. Restriction: Must be a graduate student in the Clark School Future Faculty Program; and students for whom English is not the native language must pass the Maryland English Institute ITA Evaluation prior to enrolling in this course.

Graduate students will co-teach a course under supervision of a faculty mentor. Graudate students will be involved in all aspects of the course including development of syllabus, presenting lectures, writing and grading examiniations, and evaluating the students in the course.

0101	Elisabeth Smela	Seats (Total: 10)
	Contact instructor or department for details.	

ENES662 **Innovative Ideas and Concept Development**

Credits: 3 Grading Method: Regular

Enables aspiring entrepreneurs to understand the content, methods, and models for new venture opportunity assessment and analysis. Focuses on how to identify and analyze entrepreneurial opportunities for technology-based ventures by first understanding the personal self and decision-making factors. Explores how to evaluate new venture opportunities and challenges within industries and markets.

PLM1	James Green	Seats (Total: 60)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES663 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular

Credit only granted for: ENES663 or ENPM691.

Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

PLM1	Thomas Mierzwa	Seats (Total: 60)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES666 **Creative Design, Prototyping, and Testing**

Credits: 3 Grading Method: Regular

Prerequisite: ENES664 and ENES665.

Transition from creative, innovative, design thinking methods to prototyping and concept testing of products and services. Learn how to translate ideas into marketable offerings to create real value for customers and the new venture. Emphasis is placed on an integrated and interdisciplinary approach to engineering design, concurrent engineering, design for manufacturing, industrial design, and the business of new product development. Topics include design methods, modeling and simulation, material and manufacturing process selection, platform and modular design, mass customization, planning and scheduling, and business issues, teamwork, group dynamics, creativity, and innovation.

PLM1	Cait von Schnetlage	Seats (Total: 50)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES667 **Market Development and Commercialization**

Credits: 3 Grading Method: Regular

Prerequisite: ENES664 and ENES665.

Provides an orientation to key marketing concepts critical to marketing technology-based products and services. Learn to identify market opportunities, understand customer preferences, evaluate market acceptance, and devise the appropriate going to market strategies for the new venture.

PLM1	Daniel Dearing	Seats (Total: 50)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES672 **Launching Technology Startup Ventures**

Credits: 6 Grading Method: Regular, Audit

Prerequisite: ENES670 and ENES671. Credit only granted for: ENES660 or ENES672.

Explores the processes and skills needed to launch and manage technology startup ventures. Learn how to apply best practices for planning, launching, and leading new companies. Discusses a wide range of issues of importance and concern to entrepreneurs, to include how to navigate uncertainty.

Restricted to students in the MPTE program.

PLM1	Mark Komisky	Seats (Total: 10)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program. Click here for more course information.	
PLM2	John Jabara	Seats (Total: 10)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program. Click here for more course information.	

ENFP Engineering, Fire Protection Fall 2017

ENFP101 **Introduction to Fire Protection Engineering**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP108 or ENFP101. Formerly: ENFP108.

This course will introduce students to the impact of fire on people, property and the environment and methods to mitigate the threat of fire. Student teams will apply the principles of fire behavior and fire safety systems covered in the first half of the course to design, build and test a fire safe, small-scale apartment. A final experiment will be conducted to provide an assessment of the complete designs of each team.

0101	James Milke M 12:00pm - 12:50pm	Seats (Total: 20) JMP 1109	

ENFP250 **Introduction to Life Safety Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP250 or ENFP251. Formerly: ENFP251.

Introduction to fire protection engineering and building regulation, building safety systems, and egress system design. Evacuation modeling. Human behavior in fires. Tenability Analysis.

0101	Kenneth Isman TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 46) ESJ 2212 PHY 4221	 Discussion

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ENFP310 **Water Based Fire Protection Systems Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP300. Corequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department.

Introduction to aqueous fire suppression. Discussion of key fluid dynamics and heat transfer processes in aqueous fire suppression. System design and performance analysis based on national standards, hydraulic theory and elementary fluid dynamics and heat transfer.

0101	Kenneth Isman MF 11:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 44) PHY 1201 ESJ 1215	

ENFP312 **Heat and Mass Transfer**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department.

Fundamentals of heat and mass transfer. Conduction, convection, and radiation modes of heat transfer. Diffusion concepts and evaporation phenomena. Problem solving techniques with application to fire problems.

0105	Marino diMarzo	Seats (Total: 30)	
	MW 9:00am - 9:50am	EGR 1202	
	M 1:00pm - 2:50pm	JMP 1109	Lab

ENFP405 **Structural Fire Protection**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Fire Protection program; and permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP405 or ENFP621.

Effects of elevated temperature on structural materials; steel, concrete, wood, gypsum, glass and reinforced plastics. Experimental evaluation of fire resistance of building assemblies. Analytical methods to evaluate fire resistance of structural members.

0101	Jose Torero	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	ESJ 1215

ENFP413 **Advanced Life Safety Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP250. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP613. Credit only granted for: ENFP413 or ENFP613.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety calculations. Physiology and toxicology of the fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	James Milke, Christopher Campbell	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	EGR 0135

ENFP415 **Fire Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP651. Credit only granted for: ENFP415 or ENFP651.

Designed to give students a quantitative understanding of fire behavior. The fundamentals of physics and chemistry of combustion are presented and used to derive key analytical relationships that describe fire growth. Application of these relationships to the analysis of common fire scenarios is emphasized.

0101	Stanislav Stoliarov	Seats (Total: 30)
	TuTh 9:30am - 10:45am	EGR 0135

ENFP425 **Enclosure Fire Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232, ENFP300, and ENFP312. Restriction: Must be in Engineering: Fire Protection program; and senior standing; and permission of ENGR-Fire Protection Engineering department.

An introduction to enclosure fire dynamics through the development of fire modeling algorithms and the application of computer-based fire modeling techniques. The objectives of the course are: to provide a basic understanding of enclosure fire dynamics with an emphasis on a system-level viewpoint (i.e., a global description of the coupling between combustion dynamics, smoke filling, vent flows and heat transfer); and to provide an introduction to the zone modeling approach. Topics covered include a review of the mathematical formulation of zone models, a discussion of numerical integration of the zone modeling equations (using MATLAB), and an introduction to zone modeling software used by professional engineers (e.g., CFAST).

0101	Arnaud Trouve	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	EGR 2154

ENFP429 **Independent Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Senior standing. For ENFP majors only.

Contact department for information to register for this course.

ENFP464 **Industrial Fire Safety**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must be of senior standing. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP664. Credit only granted for: ENFP464, ENFP489I, ENFP629I OR ENFP664.. Formerly: ENFP489I. Additional information: The course will be taught as a dual senior-level undergraduate course and graduate course.

Designed to introduce students to the basics of process safety with a focus on the methods and techniques that may be utilized when evaluating the existing or proposed safety protection solutions in industrial facilities. An emphasis is placed on properly identifying the hazards that are present, the risk exposure, and how best to address the risk. The foundation is laid by presenting the necessary background information on industrial processes and integrating this information with applicable fire/explosion safety science.

0101	Arnaud Trouve	Seats (Total: 20)
	MW 5:00pm - 6:15pm	JMP 1109

ENFP489 **Special Topics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

For ENFP majors only.

Contact department for information to register for this course.

ENFP489W **Special Topics; Wildland Fires: Science and Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

Restriction: Permission of ENGR-Fire Protection Engineering department.

0101	Michael Gollner	Seats (Total: 25)
	MWF 10:00am - 10:50am	EGR 0135

ENFP613 **Human Response to Fire**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP413.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety engineering calculations. Physiology and toxicology of fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	Christopher Campbell, James Milke	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	EGR 0135

ENFP619 **Graduate Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

0101	Arnaud Trouve	Seats (Total: 5)
	Contact instructor or department for details.	

ENFP621 **Analytical Procedures of Structural Fire Protection**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENFP312. Also offered as: ENFP621. Credit only granted for: ENFP405 or ENFP621.

Analysis procedures for structural components of wood, steel, concrete, composites. Structural capabilities, modifications under fire induced exposures. Calculations, computer models for predicting fire resistance ratings of structural components.

0101	Jose Torero	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	ESJ 1215

ENFP629 **Selected Topics**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP629M **Selected Topics; Material Flammability**

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

0101	Stanislav Stoliarov	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PLS 1172

ENFP629W **Selected Topics; Wildland fires: Science and Applications**

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

0101	Michael Gollner	Seats (Total: 10)
	MWF 10:00am - 10:50am	EGR 0135

ENFP649 **Special Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Prerequisite: permission of department.

Contact department for information to register for this course.

ENFP651 **Advanced Fire Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENFP629A or ENFP651. Formerly: ENFP629A.

A review of the basic chemistry and physics necessary to understanding fire dynamics; and of the physics of heat transfer and turbulent fluid flow will be given. The nature and structure of premixed and diffusion flames will be presented.

0101	Stanislav Stoliarov	Seats (Total: 10)
	TuTh 9:30am - 10:45am	EGR 0135

ENFP652 **Fire Assessment Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENFP629B or ENFP652. Formerly: ENFP629B.

This on-line course offers a comprehensive review of experimental techniques to assess fire performance characteristics of materials, products and assemblies.

EF01	Marc Janssens	Seats (Total: 40)
	Meets September 5, 2017 - November 24, 2017	
	Class time/details on ELMs	ONLINE

ENFP661 **Forensic Fire Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENFP629D or ENFP661. Formerly: ENFP629D.

This on-line course addresses the forensic analysis of structural fire incidents in terms of enclosure fire dynamics and the impact of fire safety subsystems used to prevent or mitigate the consequences of fire. These subsystems include: ignition prevention, material flammability and flame spread, fire detection and alarm, fire suppression, smoke movement and management, structural fire protection and egress systems. Failures in these subsystems are addressed in terms of differences between expected and observed performance.

EF01	Gerald Haynes, David Icove	Seats (Total: 40)
	Meets September 5, 2017 - November 24, 2017	
	Class time/details on ELMs	ONLINE

ENFP664 **Advanced Industrial Fire Safety**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENFP464. Credit only granted for: ENFP489I, ENFP629I, ENFP464, or ENFP664. Formerly: ENFP489I and ENFP629I.

This class is designed to introduce students to the basics of process safety with a focus on the methods and techniques that may be utilized when evaluating the existing or proposed safety protection solutions in industrial facilities. An emphasis is placed on properly identifying the hazards that are present, the risk exposure, and how best to address the risk. The foundation is laid by presenting the necessary background information on industrial processes and integrating this information with applicable fire/explosion safety science.

0101	Arnaud Trouve	Seats (Total: 10)
	MW 5:00pm - 6:30pm	JMP 1109

ENFP799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Fall 2017

English as a second language classes are listed under UMEI. For more detailed course descriptions, click here to visit the English department website.

ENGL101 **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Students with a TWSE score below 33 must take ENGL 101A in place of ENGL101. Students for whom English is a second language should consider taking ENGL101X in place of ENGL101. This class meets in person twice a week, the other class work is done online. http://www.english.umd.edu/academics/academicwriting/BlendedLearning"

Click here for more course information.

0101	Kristofer Reed MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0201
0102	Erica Cochran MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0205
0103	David Brookshire MWF 9:00am - 9:50am	Seats (Total: 19) KEY 0119
0104	Liam Daley MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0214
0106	Uchechi Okereke-Beshel MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0221

0108	Tung-An Wei MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0236
0201	Uchechi Okereke-Beshel MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0201
0203	Rick Frankos MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1106
0204	David Brookshire MWF 10:00am - 10:50am	Seats (Total: 19) JMZ 1224
0205	Dara Liling MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0123
0206	Lissette Escariz MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0124
0208	Michael Colson MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0125
0301	Hillary Roegelein MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0119
0302	Lissette Escariz MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0123
0303	Robert Lucci MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0124
0304	Sabrina Islam MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0205
0305	William Pittman MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0125
0306	Kelsey Kerr MWF 11:00am - 11:50am	Seats (Total: 19) EDU 2102
0401	Sabrina Islam MWF 12:00pm - 12:50pm	Seats (Total: 19) EDU 2102

0402	Kiyanna Hill MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0123
0403	Dominique Young MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1107
0404	Emilee Durand MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0205
0405	Liam Daley MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0120
0406	Michael Colson MWF 12:00pm - 12:50pm	Seats (Total: 19) KNI 1105
0502	Heather De Bel MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0125
0503	Michelle Walsh MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1313
0504	Joshua Weiss MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0205
0505	Derek Ellis MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0120
0506	Kelsey Kerr MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0221
0601	Erica Cochran MWF 2:00pm - 2:50pm	Seats (Total: 19) TWS 0214
0602	Joseph Good MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0124
0603	William Gonch MWF 2:00pm - 2:50pm	Seats (Total: 19) TWS 0205
1001	Samantha O'Connor TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0236

1002	Justin Thompson TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1106
1102	Nancy Vera TuTh 9:30am - 10:45am	Seats (Total: 19) KEY 0123
1103	Fatima Taha TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 2120
1105	Aqdas Aftab TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0205
1203	Anna Goodson TuTh 11:00am - 12:15pm	Seats (Total: 19) KEY 0124
1204	Justin Lohr TuTh 11:00am - 12:15pm	Seats (Total: 19) KEY 0123
1205	Peter Witte TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1321
1301	Collier Cobb TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1105
1302	Caitlin Reid TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 2120
1303	Martina Domnick TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 2117
1304	Nicolette Polek TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1313
1306	Susan Pramschufer TuTh 12:30pm - 1:45pm	Seats (Total: 19) KEY 0119
1307	Konstantinos Pozoukidis TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1321
1401	Justine DeCamillis TuTh 2:00pm - 3:15pm	Seats (Total: 19) KEY 0119

1402	Jason Smith, Emily Lyons TuTh 2:00pm - 3:15pm	Seats (Total: 19) KEY 0124
1403	Katherine Joshi TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 1105
1404	Heather McHale TuTh 2:00pm - 3:15pm	Seats (Total: 19) KEY 0102
1405	Lindsey O'Neil TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 2117
BL01	Sarah Pleydell Tu 9:30am - 10:45am Th 9:30am - 10:45am *This class meets in person once a week; the other class work is done online.*	Seats (Total: 19) KEY 0120 ONLINE
BL02	Susan Pramschufer Tu 11:00am - 12:15pm Th 11:00am - 12:15pm *This class meets in person once a week; the other class work is done online.*	Seats (Total: 19) KEY 0120 ONLINE
BL03	Rachel Waugh Th 9:30am - 10:45am Tu 9:30am - 10:45am *This class meets in person once a week; the other class work is done online.*	Seats (Total: 19) KEY 0120 ONLINE
BL04	Rachel Waugh Th 11:00am - 12:15pm Tu 11:00am - 12:15pm *This class meets in person once a week; the other class work is done online.*	Seats (Total: 19) KEY 0120 ONLINE
BL05	Douglas Kern MF 12:00pm - 12:50pm Class time/details on ELMs *This class meets in person twice a week; the other class work is done online.*	Seats (Total: 19) KEY 0124 ONLINE

BL06	Douglas Kern MF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) KEY 0124 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL07	Sara Faradji Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) KEY 0119 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL08	Sarah Pleydell Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) KEY 0119 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL09	Amanda Fiore Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL10	Amanda Fiore Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL11	Savannah Moix-Rogers MW 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) TWS 0205 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL12	David Brookshire MW 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) TWS 1107 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL13	David Brookshire MW 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 19) TWS 0201 ONLINE
	This class meets in person twice a week; the other class work is done online.	

BL14	Audrey Farley MW 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) TWS 1107 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL15	John Macintosh Th 9:30am - 10:45am Tu 9:30am - 10:45am	Seats (Total: 19) KEY 0119 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL16	Amanda Allen Th 11:00am - 12:15pm Tu 11:00am - 12:15pm	Seats (Total: 19) KEY 0119 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL17	Amanda Allen Th 12:30pm - 1:45pm Tu 12:30pm - 1:45pm	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL18	Rachel Waugh Th 2:00pm - 3:15pm Tu 2:00pm - 3:15pm	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person once a week; the other class work is done online.	
BL19	Emily Lyons MF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL20	Emily Lyons MF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) KEY 0120 ONLINE
	This class meets in person twice a week; the other class work is done online.	
BL23	Emily Lyons MF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) MTH 0302 ONLINE
	This class meets in person twice a week, the other class work is done online.	

BL24	Emily Lyons MF 9:00am - 9:50am Class time/details on ELMs *This class meets in person twice a week, the other class work is done online.*	Seats (Total: 19) JMZ 0118 ONLINE
FC01	Emily Perez MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0119
FC02	Emily Perez MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0119
FC03	Jesse Brooks MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0119
FC04	Daniel Kason MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0124
FC05	Michelle Walsh MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0236
FC06	Michelle Walsh MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0205
FC07	Paul Cote MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0236
FC08	Emily Myrick TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0205

FC09	Stephanie Allen TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC10	Stephanie Allen TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0119
FC11	Amanda Allen TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0124
FC12	Jesse Brooks MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214
FC13	Nataliya Pratsovyta TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1127
FC14	Katherine Joshi TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) WDS 1131
FC15	Paul Cote TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0119
FC16	Jonathan Williams TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0124
FC17	Heather McHale TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0221
FC18	Heather McHale TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0221

FC19	Joshua Weiss MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC20	Audrey Farley MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0120
FC21	Rick Frankos MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214
FC22	Amanda Allen TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 0120
FC23	Porter Olsen MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0205
FC24	Brian Davis TuTh 6:00pm - 7:15pm *Restricted to Freshmen Connection Students.*	Seats (Total: 19) TWS 0205
FC25	Brian Davis TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) TWS 0214

ENGL101A **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Students should take ENGL 101A rather than ENGL 101 if their TWSE score (a subscore of the SAT verbal) is 33 or below.

1702	Peter Witte TuTh 9:30am - 10:45am	Seats (Total: 15) ARC 1127
1703	Jesse Brooks MWF 12:00pm - 12:50pm	Seats (Total: 15) TWS 0221

ENGL101C **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Restricted to students in the Civicus Program.

0209	Joshua Weiss MWF 10:00am - 10:50am	Seats (Total: 19) SOM 0101
0309	Joshua Weiss MWF 11:00am - 11:50am	Seats (Total: 19) SOM 0101

ENGL101H **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

For general honors students or students with a verbal SAT of 600 or better.

0109	Michael Kolakoski MWF 9:00am - 9:50am	Seats (Total: 19) ANS 0402
0210	Kelsey Kerr MWF 10:00am - 10:50am	Seats (Total: 19) ASY 3221
0310	Lara Payne MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0221

0407	Kelsey Kerr MWF 12:00pm - 12:50pm	Seats (Total: 19) ASY 3217
0408	Lara Payne MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1313
0507	Virginia Butler MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1320
1107	Carlos Chism TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1321
1207	Peter Grybauskas TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1313
1307	Justin Lohr TuTh 12:30pm - 1:45pm	Seats (Total: 19) SQH 1123

ENGL101S **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

This course is restricted to College Park Scholars.

0110	Nicole Roberts MWF 9:00am - 9:50am	Seats (Total: 19) CCC 1111
0211	Michael Kolakoski MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1115
0212	Radford Skudrna MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1105
0311	Michael Kolakoski MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1105

0312	Radford Skudrna MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1115
0410	Michael Kolakoski MWF 12:00pm - 12:50pm	Seats (Total: 19) CCC 1115
0509	Radford Skudrna MWF 1:00pm - 1:50pm	Seats (Total: 19) CCC 1115
0607	Radford Skudrna MWF 2:00pm - 2:50pm	Seats (Total: 19) CCC 1105
1108	John Kim TuTh 9:30am - 10:45am	Seats (Total: 19) CCC 1115
1208	Katherine Joshi TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1105
1209	DeLisa Hawkes TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1115
1210	John Kim TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1200
1308	Rahel Worku TuTh 12:30pm - 1:45pm	Seats (Total: 19) CCC 1115
BL01	Catherine Bayly MF 12:00pm - 12:50pm Contact instructor or department for details. *This class meets in person twice a week, the other class work in done online.*	Seats (Total: 19) CCC 1105
BL02	Catherine Bayly MF 1:00pm - 1:50pm Contact instructor or department for details. *This class meets in person twice a week; the other class work is done online.*	Seats (Total: 19) CCC 1105

ENGL101X **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

Additional information: Any student who has not successfully completed this course by Fall 2017 must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.

An introductory course in expository writing.

Limited to students for whom English is a second language. The following are indications that a student should register for English 101X: 1) an iBT TOEFL score of 100 overall, with a writing section score of at least 24; 2) an IELTS score of 7.0 overall, with a writing score of at least 7.0; 3) satisfactory completion of UMEI 005: Advanced English as a Foreign Language.

2002	Amanda Fiore TuTh 9:30am - 10:45am	Seats (Total: 18) KEY 0100
2003	Amanda Fiore TuTh 11:00am - 12:15pm	Seats (Total: 18) KEY 0125
2004	Laura Williams MWF 10:00am - 10:50am	Seats (Total: 18) KEY 0102
2005	William Pittman MWF 12:00pm - 12:50pm	Seats (Total: 18) KEY 0125
2006	Katie Bramlett TuTh 2:00pm - 3:15pm	Seats (Total: 18) TWS 1321
2007	Laura Williams MWF 11:00am - 11:50am	Seats (Total: 18) LEF 1171

ENGL130 **Race and the Cultural Politics of Blood: A Historical Perspective**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

Credit only granted for: ENGL130 or ENGL237. Formerly: ENGL237.

Exploration of race, as term and concept, at three different historical times and from three different perspectives, through the reading of three stories: William Shakespeare's drama Othello, Aphra Behn's novella Oroonoko, and the short story Benito Cereno by Herman Melville. Exploration of the importance of context in interpretation. Study of how a concept for rationalizing human difference appears and adapts, fuses and fades away, relocates and is repurposed. How understanding of the particular situation of the concept, its context, changes our reading of the story.

0201	Kim Coles MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0214	Discussion
0202	Kim Coles MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 TWS 0214	Discussion
0203	Kim Coles MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0214	Discussion
0204	Kim Coles MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 24) TWS 1100 TWS 0214	Discussion

ENGL140 **American Fictions: Cross-Examining U.S. Literature, History, and Politics**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

Credit only granted for: ENGL140 or ENGL289Y. Formerly: ENGL289Y.

Major works of American literature explored in relation to major texts and developments of U.S. history, culture and politics. Special attention to global contexts and complications of "American" literature and history. Key historical and political issues include human rights, democratic principles, independence, revolution, slavery, removal, immigration, free speech, labor rights, civil rights, feminism, environmentalism, economic globalization, technology and digital innovation, and the role literature and the humanities may play in fostering various forms of responsible citizenship.

0101	Peter Mallios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0102	Peter Mallios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0103	Peter Mallios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion

0104	Peter Mallios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion

ENGL150 **Uncanny Technologies: Monsters, Droids, and Vampires**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

Credit only granted for: ENGL150 or ENGL289T. Formerly: ENGL289T.

Explores dark, uncertain borders between human and nonhuman, natural and unnatural, life and death. What literature teaches about new technologies that seek to represent or replicate human experience. Examination of a series of nineteenth-century American, French, German, and British novels and stories from Frankenstein (1818) to Dracula (1897) featuring recently introduced media and inventions such as photographs, phonographs, automata, and motion pictures that are concerned, like works of literature, with recording and reproducing human consciousness and human body.

0201	Kelly Singleton TuTh 11:00am - 12:15pm	Seats (Total: 30) TWS 1107
0301	Kelly Singleton TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0207

ENGL201 **Inventing Western Literature: Ancient and Medieval Traditions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts, genres, and themes from ancient and medieval Western traditions. Study of cultural, historical, and artistic forces shaping traditions, and the influence and relevance of those traditions to life in twenty-first century.

0101	Nathan Tillman MWF 12:00pm - 12:50pm	Seats (Total: 30) ASY 3219

ENGL202 **Inventing Western Literature: Renaissance to Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts from the Renaissance to the 21st century. Themes and literary techniques in the evolution of Western literature. Print publication, industrialization, questioning of religious, political, intellectual, and cultural authority.

Contact department for information to register for this course.

ENGL206 **Shakespeare**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL205, ENGL206, or ENGL289I. Formerly: ENGL205.

Shakespeare's poems, history plays, comedies, and tragedies as investigations into language use, governance, sexuality, ethics, and mortality.

0101	Garth Libhart MWF 1:00pm - 1:50pm	Seats (Total: 30) TWS 0201
0201	Justine DeCamillis TuTh 3:30pm - 4:45pm	Seats (Total: 30) KEY 0102

ENGL211 **English Literature: Beginnings to 1800**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys medieval and early modern literary works written in England. Readings may include Beowulf, Chaucer, Spenser, Mary Wroth, Milton; eighteenth-century satire, drama, novels.

Contact department for information to register for this course.

ENGL221 **American Literature: Beginning to 1865**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys American writing from the founding of the colonies through the Civil War. Authors such as Taylor, Cooper, Poe, Dickinson.

0101	Timothy Bruno TuTh 11:00am - 12:15pm	Seats (Total: 30) TWS 1106

ENGL222 **American Literature: 1865 to Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys American writing from the Civil War through the Cold War. Authors such as Clemens, Frost, Hurston, Bellow.

0301	Collier Cobb TuTh 9:30am - 10:45am	Seats (Total: 30) TWS 0236

ENGL234 **African-American Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.

Also offered as AASP298L. Credit will be granted for one of the following: AASP298L or ENGL234.

0201	Norrell Edwards	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	JMZ 0208

ENGL235 **U.S. Latina/o Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail	CORE: HL, D	General Education: DSHU, DVUP

Poetry, prose, and theater of Latina/o communities in the United States from origins in Spanish colonization of North America to ongoing development in the 21st century. How authors use literary form to gain insight into human experience, including mortality, religious belief, gender and sexuality, war and peace, family, language use, scientific inquiry, cultural tradition, ecology, and labor. How Latina/o literary traditions have shaped and been shaped by broader currents in American literature. Connections between Latina/o literature and social and artistic developments in other parts of the world, particularly Latin America and the Caribbean. Authors may include Alvar Nunez Cabeza de Vaca, Eulalia Perez, Juan Nepomuceno Seguin, Maria Amparo Ruiz de Burton, Jose Marti, Arthur A. Schomburg, Jesus Colon, Julia de Burgos, Cesar Chavez, Ariel Dorfman, Gloria Anzaldua, Junot Diaz, and Cristina Garcia.

Additional Note: Also offered as AMST298Q. Credit granted for ENGL235 or AMST298Q.

0201	Sharada Balachandran Orihuela	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TWS 0214

ENGL240 **Introduction to Fiction, Poetry, and Drama**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL

Readings in the novel, short story, poetry and drama.

Contact department for information to register for this course.

ENGL243 **What is Poetry?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

An exploration of arguably the most complex, profound, and ubiquitous expression of human experience. Study through close reading of significant forms and conventions of Western poetic tradition. Poetry's roots in oral and folk traditions and connections to popular song forms.

0101	Hillary Roegelein MWF 12:00pm - 12:50pm	Seats (Total: 30) KEY 0102	
0201	Thibault Raoult TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0221	

ENGL245 **Film Form and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not have completed FILM245. Also offered as: FILM245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Eric Zakim MW 2:00pm - 2:50pm W 3:00pm - 5:30pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 0205	 Lab Discussion
0102	Eric Zakim MW 2:00pm - 2:50pm W 3:00pm - 5:30pm F 11:00am - 11:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 1107	 Lab Discussion
0103	Eric Zakim MW 2:00pm - 2:50pm W 3:00pm - 5:30pm F 12:00pm - 12:50pm	Seats (Total: 25) TWS 0320 TWS 0320 TWS 0201	 Lab Discussion

0104	Eric Zakim	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	TWS 0320	
	W 3:00pm - 5:30pm	TWS 0320	Lab
	F 1:00pm - 1:50pm	TWS 1107	Discussion
0201	Paul Cote	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	TWS 0320	
	Tu 3:30pm - 6:00pm	TWS 0320	Lab
FCH1	Audrey Farley	Seats (Total: 24)	
	M 6:00pm - 7:15pm	TLF 1101	
	Class time/details on ELMs	ONLINE	
	Restricted to students in Freshmen Connection.		

ENGL250 **Reading Women Writing**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: WMST255. Credit only granted for: ENGL250 or WMST255.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Lindsey O'Neil	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	KEY 0125

ENGL255 **Literature of Science and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL255 or ENGL278T. Formerly: ENGL278T.

Examines science and technology through the lens of British and America literature, primarily between 1800 and the present. Readings from early natural and experimental philosophers of the Scientific Revolution and Enlightenment. How literary works represent the ethics of science and technology; beneficial developments of science, and also heavy toll of industrialization. Writers studied may include Francis Bacon, Mary Shelley, Charles Darwin, H.G. Wells, Albert Einstein, Aldous Huxley, Richard Feynman, Philip K. Dick, Octavia Butler, Michael Frayn, and Tom Stoppard.

0101	Tamar Leroy TuTh 12:30pm - 1:45pm	Seats (Total: 30) JMZ 3205
FC01	Heather McHale TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) TWS 0221

ENGL256 **Fantasy Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

How fantasy employs alternate forms of representation, such as the fantastical, estranging, or impossible, which other genres would not allow. Through novels, short stories, graphic novels, and film, traces fantasy's roots in mythology and folklore, then explores how modern texts build upon or challenge these origins. Examination of literary strategies texts use to represent the world through speculative modes. How to distinguish fantasy from, and relate it to, other genres such as science fiction, horror, fairly tales, and magical realism. Fantasy's investment in world-building, history, tradition, and categories of identity such as race, class, and gender. How fantasy, as a genre, form, and world-view, is well-suited to our contemporary reality.

0101	Kathryn Frew MWF 12:00pm - 12:50pm	Seats (Total: 30) JMZ 0103

ENGL257 **Children's Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Literature of the nineteenth through the twenty-first century concerned with, and written for, children and young adults. How such narratives speak to themes of changing social, religious, political, and personal identity. Through poetry, novels, graphic novels, and film, explores how children's tales encapsulate and reflect on human existence, while pushing boundaries of what constitutes "children's literature" and what exactly defines the "child." Considers questions of literary classification through investigation of political and religious issues, gender politics, animal rights, social justice, race, war, and what it means to "grow up."

0101	Daniel Kason MW 3:30pm - 4:45pm	Seats (Total: 30) TWS 0236

ENGL262 **Introduction to the Hebrew Bible/Old Testament**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: JWST262. Credit only granted for: JWST262, HEBR223, or ENGL262. Formerly: HEBR223.

An exploration of the origins and compositional history of biblical literature. Critical study of texts and socio-historical analysis of their background.

0101	Matthew Suriano MW 4:00pm - 5:15pm	Seats (Total: 30) KEY 0100

ENGL265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed LGBT265. Also offered as: LGBT265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	Elizabeth McClure TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 0205
0201	John Macintosh TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0205

ENGL269A **Special Topics in Study Abroad II; German Romanticism in its European Context**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269B **Special Topics in Study Abroad II; Writing Workshop I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269C **Special Topics in Study Abroad II; Writing Workshop II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL271 **Writing Poems and Stories: An Introductory Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Introduction to theory and practice of writing fiction and poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Emily Myrick TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0124
0201	Derek Ellis MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0123
0301	Anna Goodson TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0124
FC01	Lindsay Bernal TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0123

ENGL272 **Writing Fiction: A Beginning Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Introduction to theory and practice of writing fiction. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Nicolette Polek TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0125
0201	Heather De Bel MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0120
0301	Emily Lyons, Jason Smith TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0123
0401	Carlos Chism TuTh 12:30pm - 1:45pm	Seats (Total: 20) LEF 1220

ENGL273 **Writing Poetry: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Introduction to theory and practice of writing poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Kiyanna Hill MW 2:00pm - 3:15pm	Seats (Total: 20) KEY 0125
0201	Caitlin Reid TuTh 2:00pm - 3:15pm	Seats (Total: 20) KEY 0123

ENGL274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must not have completed ENGL278C, AASP298W, ENGL271, ENGL274, ENGL294, ENGL294N, or AASP274. Also offered as: AASP274. Credit only granted for: ENGL274, AASP274 or AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Dorothy Phaire TuTh 9:30am - 10:45am	Seats (Total: 20) NCC 0120

ENGL275 **Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DSSP

Also offered as: ARHU275. Credit only granted for: ENGL278D, ENGL275, ARHU319B, or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to the theory and practice of scriptwriting with an opportunity to read, view, evaluate, write, and revise texts meant to be performed. Students will practice writing for the stage, film, and television and also examine selected scripts, performances, and film and television clips as models for their own creative work. Students will complete frequent writing exercises, participate in workshops, and learn to apply scholarship to the analysis and critique of scripts.

Also offered as ARHU275.

0101	Douglas Kern TuTh 3:30pm - 4:45pm	Seats (Total: 20) KEY 0119
0201	Heidi Scott MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0221
0202	Heidi Scott MWF 10:00am - 10:50am *This section is restricted to students in the Jimenez-Porter Writers' House.*	Seats (Total: 1) TWS 0221

ENGL278B **Special Topics in Literature; German Romanticism in its European Context**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL278N **Special Topics in Literature; The Romantic Experience in Europe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL278O **Special Topics in Literature; German Romanticism in its European Context**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL280 **The English Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Introduction to the structure of English and its historical development with a focus on techniques of linguistic analysis. Major topics include the sound systems of English and its patterns of word formation and sentence structure, and the ways these have changed over time and vary around the world.

0101	Linda Coleman TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 0221

ENGL282 **How Rhetoric Works: Persuasive Power and Strategies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Examines how persuasion functions and influences our lives and perception, focusing on a variety of contexts: business, politics, media, law, and entertainment. Students learn persuasive and argumentative principles to understand what rhetoric is, how it works, and what it does, and to apply the knowledge to produce effective communication appropriate for their purpose, audience, and context. A wide range of persuasive media, genres, and forms will be studied to help students sharpen how they interpret and practice persuasion.

0101	Danielle Griffin MWF 1:00pm - 1:50pm	Seats (Total: 30) ASY 3219

ENGL291 **Writing, Revising, Persuading**

Credits: 3 | Grading Method: Regular | General Education: DSHU, DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Intermediate-level, writing-intensive course for students who have successfully satisfied the Fundamental Studies Academic Writing requirement but wish to hone skills in analyzing and producing rhetorically attuned, well-styled prose. Deeper study of rhetorical theory and its application to a wide variety of arguments and situations. Additional writing practice, techniques of revision, study of effect of stylistic choices. Topics may include argumentation theory, visual rhetoric, stylistic theory, and writing theory.

Contact department for information to register for this course.

ENGL293 **Writing in the Wireless World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DSSP

Recommended: ENGL101. Credit only granted for: ENGL278Z or ENGL293. Formerly: ENGL278Z.

A hands-on exploration of writing at the intersection of technology and rhetoric. Students will learn to read, analyze, and compose the kind of multimodal documents (combining text, image, and sound) that constitute communication in our digital world.

0101	Lyra Hilliard MW 2:00pm - 3:15pm	Seats (Total: 22) JMZ 1117
FC01	Porter Olsen MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) TWS 0205

ENGL294 **Persuasion and Cleverness in Social Media**

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Exploration of various persuasive media encountered in daily life through the lens of rhetorical and critical theories. Principles of rhetoric and analysis of how persuasion functions across media. Invention of effective multimedia works appropriate to purpose, audience, and context. Concepts from cultural studies used to develop critical awareness about power and ideology and how they influence the way people produce and understand messages. By integration of technology, rhetoric, and cultural studies, students become more critically-rhetorically informed thinkers, authors, and audiences of arguments and culture in the digital age. Writing intensive course. No prior multimedia experience is expected.

0101	Setsuko Yokoyama MWF 12:00pm - 12:50pm	Seats (Total: 20) TWS 0232

ENGL296 **Reading and Writing Disability**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DVUP

Rhetoric-based course that locates and analyzes disability in various settings, modes, and texts. Investigates material and cultural effects of the language, stories, and myths of disability. Exploration of the many definitions and frameworks of disability. Disability as dynamic lived experiences, as a political identities, as a rich culture, as socially constructed barriers, and as an oppressed minority group. Social, medical, political, cultural, and personal definitions of disability; how disability is portrayed, controlled, stereotyped, and celebrated.

0101	Virginia Butler MWF 11:00am - 11:50am	Seats (Total: 20) TWS 0201

ENGL297 **Introduction to Professional Writing**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ENGL101.

Introduction to the rhetorical principles and professional practices of professional writing, particularly the research, writing, communication, analytical, and technological skills needed for the Professional Writing minor. How culture and technology relate to the work of professional writing; design principles and rhetorical moves; digital tools, research skills, and writing strategies of professional writers. Develops skills needed to publish a writing portfolio that showcases students' professional writing competencies and projects your professional writer identities.

0101	Anna Szczepaniec-Bialas MW 2:00pm - 3:15pm	Seats (Total: 22) TWS 0224

ENGL301 **Critical Methods in the Study of Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.

An introduction to the techniques of literary analysis and a brief survey of the most common approaches to literature.

0201	Scott Trudell MW 3:30pm - 4:45pm	Seats (Total: 21) TWS 3132
0301	Sharada Balachandran Orihuela TuTh 11:00am - 12:15pm	Seats (Total: 21) TWS 0205
0401	Nathaniel Underland TuTh 12:30pm - 1:45pm	Seats (Total: 21) TWS 3132
0501	David Wyatt TuTh 2:00pm - 3:15pm	Seats (Total: 21) TWS 3132
0701	Vessela Valiavitcharska MW 2:00pm - 3:15pm	Seats (Total: 21) TWS 3132

ENGL302 **Medieval Literature in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Surveys major works of English and continental Middle Ages. Readings may include romance, lyric and drama, Germanic epic, works of Dante, Chretien de Troyes, Jean de Meun, Christine de Pisan, Malory, English and continental mystics.

0101	Thomas Moser	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 0201

ENGL304 **The Major Works of Shakespeare**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Restriction: Must not have completed ENGL403 or ENGL404.

Representative early, middle, and later works, including comedies, tragedies, histories, and romances. Historical and cultural contexts.

0201	Jonathan Williams	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 1107

ENGL305 **Shakespeare and His Contemporaries: An Introduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Readings in Shakespeare and contemporaries such as Marlowe, Dekker, Middleton, Jonson, Webster, Chapman, Marston. Elizabethan and Jacobean theatrical and social contexts.

Contact department for information to register for this course.

ENGL310 **Medieval and Renaissance British Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Detailed study of selected major medieval and Renaissance works written in England. Cultural attitudes and historical contexts. May include Beowulf, Anglo-Saxon lyric, drama, sonnets; works of women writers, Chaucer, Spenser, Sidney. Some readings in Middle English.

0101	Christopher Crane	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	TWS 0201

ENGL311 **British Literature from 1600 to 1800**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The culture of seventeenth and eighteenth-century Britain seen through detailed study of selected major texts. Drama, poetry, political writings, and early novels by men and women. Authors may include Donne, Milton, Jonson, Behn, Swift, Pope, Montagu, and Wollstonecraft.

0101	Jonathan Williams TuTh 3:30pm - 4:45pm	Seats (Total: 28) TWS 0214

ENGL312 **Romantic to Modern British Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Detailed study of selected major texts from the 19th and 20th centuries Transitions from Romanticism to Victorian age to Modernism. Historical, social, literary contexts. Issues such as rise of democracy; industrial revolution; the "woman question"; revolutions in literary form. Authors might include Wordsworth, Austen, Dickens, Arnold, T.S. Eliot, and Woolf.

0201	Heidi Scott MWF 1:00pm - 1:50pm	Seats (Total: 28) TWS 1106

ENGL313 **American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A detailed study of selected major texts of American literature from th 17th century to the 20th century. Issues such as race, gender, and regionalism. Authors such as Franklin, Hawthorne, Dickinson, Hemingway, and Morrison.

0101	Blake Wilder TuTh 5:00pm - 6:15pm	Seats (Total: 28) TWS 0201

ENGL327 **The Suburbs in American Literature and Film**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU, DVUP

Explores through written expression and through cinema the diverse and changing world of US suburbia. Premised on two arguments: (1) the suburbs embody many of the contours and contradictions of American life; and (2) the suburbs are far more racially, ethnically, culturally, sexually, economically diverse than mass media suggests. Investigation via prose, poetry, drama, and cinema, as well as secondary sources in sociology, women's studies, ethnic studies, history, cultural studies, psychology, anthropology, and the history of science and technology.

0101	Randy Ontiveros	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TWS 1320

ENGL329C **Special Topics in Film Studies; Sexuality in the Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as CMLT398L. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 28)
	Class time/details on ELMs	ONLINE

ENGL329J **Special Topics in Film Studies; The Films of Alfred Hitchcock**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department. Also offered as FILM345. Credit only granted for FILM345 or ENGL329J.

0101	Marianne Conroy	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 1106

ENGL329V **Special Topics in Film Studies; Presentations of London in Modern European Literature Film and Fine Art**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Contact department for information to register for this course.

ENGL331 **American Jewish Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: JWST341. Credit only granted for: ENGL379L (Spring 2013), HONR229G (Spring 2008), JWST319T(Spring 2013), ENGL331, or JWST341. Formerly: ENGL379L and JWST319T.

An exploration of the role played by literature in the development of American Jewish ethnic identity. Primary materials include essays, poetry, plays, short stories, novels, films and music.

Also offered as: JWST341. Credit only granted for: ENGL379L, HONR229G, JWST319T, ENGL331, or JWST341. Formerly: ENGL379L and JWST319T.

0101	Sheila Jelen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 0221

ENGL332 **Representing the Holocaust**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: JWST346. Credit only granted for: ENGL379J, JWST419I, ENGL332, or JWST346. Formerly: ENGL379J or JWST419I.

Different perspectives on how the Holocaust should be represented. Examination of a wide range of texts including fiction, memoirs, critical essays, poems and films in different languages (in translation). Emphasis on the international and comparative nature of Holocaust literary studies and investigation into the propriety of literary representation of historical catastrophe. Consideration of our own role as readers serving as witnesses to an event that has marked itself indelibly in the aesthetic history of the twentieth century.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TWS 0236

ENGL344 **Nineteenth-Century Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major British, American, and other fiction writers of the nineteenth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0201	James Goodwin	Seats (Total: 28)
	MW 3:30pm - 4:45pm	TWS 1107

ENGL346 **Twentieth Century Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major British, American, and other fiction writers of the twentieth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0201	Nathaniel Underland TuTh 9:30am - 10:45am	Seats (Total: 28) TWS 0214

ENGL352 **Intermediate Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL272; or permission of ARHU-English department. Credit only granted for: ENGL396 or ENGL352. Formerly: ENGL396.

A class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and the fiction of colleagues, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

0101	Howard Norman M 3:30pm - 6:00pm	Seats (Total: 15) TWS 3248
0201	Gabrielle Fuentes Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 3248
0301	Maud Casey W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252

ENGL353 **Intermediate Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL273; or permission of ARHU-English department. Credit only granted for: ENGL397 or ENGL353. Formerly: ENGL397.

A class in the making of poetry. Intensive discussion of students' own poems. Readings in both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, memorization, and attendance at poetry readings.

0101	Thibault Raoult Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 3250

ENGL358D **Special Topics in U.S. Latina/o Literature; Cuban Poetry & Fiction Post-1980**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of works by U.S. Latina/o writers.

Contact department for information to register for this course.

ENGL360 **African, Indian and Caribbean Writers**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Selected writers from countries formerly colonies of Britain, France, Denmark, etc. Attention to ways regions have developed distinctive political and aesthetic values resulting from indigenous traditions and foreign influences.

0201	Sangeeta Ray MW 3:30pm - 4:45pm	Seats (Total: 25) TWS 0201

ENGL362 **Caribbean Literature in English**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHU, DVUP

Also offered as ENGL362. Credit granted for ENGL362 or LASC348E. Political and literary traditions that intersect in the fiction, poetry, and drama written in English by Caribbean writers, primarily during the 20th century.

Also offered as LASC348E. Credit granted for ENGL362 or LASC348E.

0201	Corey Lamont TuTh 9:30am - 10:45am	Seats (Total: 25) TWS 1107

ENGL368B **Special Topics in the Literature of Africa and the African Diaspora; Blues and African American Folksong**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0201	Barry Pearson TuTh 12:30pm - 1:45pm	Seats (Total: 28) TWS 0201

ENGL368D **Special Topics in the Literature of Africa and the African Diaspora; African American Folklore and Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0201	Barry Pearson	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	TWS 0201

ENGL369A **Special Topics in Study Abroad III; The Scene of Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369B **Special Topics in Study Abroad III; Representing London: The Eighteenth Century I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369C **Special Topics in Study Abroad III; The Dickens City I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369D **Special Topics in Study Abroad III; Writing the First World War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVCC

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369E **Special Topics in Study Abroad III; The Crisis of Culture: Literature and Politics 1918-1948**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369F **Special Topics in Study Abroad III; British Drama from the 1950s to the Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369G **Special Topics in Study Abroad III; Adapting Literature to Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369H **Special Topics in Study Abroad III; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369L **Special Topics in Study Abroad III; Angloamerican Travelers in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Q **Special Topics in Study Abroad III; Literature of the Shoah**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Z **Special Topics in Study Abroad III; The London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL373 **Senior Honors Project**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL370. Restriction: Must be in English Language and Literature program.

Research and writing of senior honors project. Strongly recommended for students planning graduate work.

0101	Jason Rudy	Seats (Total: 20)
	M 3:30pm - 5:30pm	TWS 3252

ENGL379M **Special Topics in Literature; British Plays in Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Michael Olmert	Seats (Total: 25)
	M 3:30pm - 6:15pm	TWS 1121

ENGL379V **Special Topics in Literature; Gypsy Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as CMLT398N. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson	Seats (Total: 28)
	Class time/details on ELMs	ONLINE

ENGL379W **Special Topics in Literature; Italian Tales and Stories: Creative Writing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ENGL379Y **Special Topics in Literature; American Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Lee Konstantinou TuTh 3:30pm - 4:45pm	Seats (Total: 28) TWS 1106

ENGL381 **MGA Legislative Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSPW

Prerequisite: Permission of ARHU-English department.

Classroom analysis component of the Maryland General Assembly internship program.

Also offered as HONR368A. Credit only granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only. Click here for more details.

0101	Thomas Lowderbaugh Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 0232
0201	Thomas Lowderbaugh W 3:30pm - 6:00pm	Seats (Total: 15) TWS 0232

ENGL384 **Concepts of Grammar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the basic units of grammatical description; motivation for and nature of constituent structure and syntactic categories; fundamental grammatical concepts employed in the teaching and learning of languages.

0101	Michael Israel TuTh 9:30am - 10:45am	Seats (Total: 25) TWS 3132

ENGL385 **English Semantics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory study of meaning in language and paralanguage. General semantics, kinesics, linguistic relativity and recent developments in linguistic semantics.

0101	Michael Israel TuTh 11:00am - 12:15pm	Seats (Total: 25) TWS 3136

ENGL388A **Writing Internship; Second Life Workshop in African American Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Field work in English.

Contact department for information to register for this course.

ENGL388D **Writing Internship; Dickinson Electronic Archives**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Martha Nell Smith	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388P **Writing Internship; Pre-professional Writing Skills Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Karen Lewis	Seats (Total: 15)
	Contact instructor or department for details.	

ENGL388V **Writing Internship; Undergraduate Teaching Assistants in Writing Programs**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Field work in English.

Prerequisite: permission of department. Repeatable to 12 credits. Contact Lyra Hilliard, lyrahill@umd.edu. Students taking ENGL388V for the first time should register for section 0101 or 0401 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001 or 3001 for 3 credits.

0101	Nabila Hijazi	Seats (Total: 20)
	W 5:00pm - 6:30pm	TWS 1320

0401	Lyra Hilliard Th 5:00pm - 6:30pm	Seats (Total: 20) TWS 1320
2001	Nabila Hijazi Contact instructor or department for details.	Seats (Total: 10)
3001	Lyra Hilliard Contact instructor or department for details.	Seats (Total: 10)

ENGL388W **Writing Internship; Writing Center Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English.

Prerequisite: permission of department. Repeatable to 12 credits. To apply, go to http://www.english.umd.edu/academics/writingcenter/internship Students taking ENGL388W for the first time should register for section 0101 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001 or 3001.

0101	Thomas Earles M 3:30pm - 6:00pm Contact instructor or department for details. *Students registering for 0101 should register for four credits.*	Seats (Total: 20) TWS 3136
2001	Thomas Earles Contact instructor or department for details.	Seats (Total: 4)

ENGL390 **Science Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

Click here for more course information.

0101	Marybeth Shea MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0224

0301	Katherine Oneill MWF 11:00am - 11:50am	Seats (Total: 19) HBK 0125
0401	Katherine Oneill MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0207
0501	Katherine Oneill MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0207
1001	Diana Friedman TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0207
1101	Diana Friedman TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0207
1501	Robin Allen-Klein TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1505	Robin Allen-Klein TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1601	Richard Reynnells Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
1801	Richard Reynnells W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
9001	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL390H Science Writing

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

0201	Marybeth Shea MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0232
0301	Marybeth Shea MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0232

ENGL391 Advanced Composition

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

Click here for more course information.

0401	Anna Szczepaniec-Bialas MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0224
0402	Robert Crane MWF 12:00pm - 12:50pm	Seats (Total: 19) LEF 1171
0501	Anna Szczepaniec-Bialas MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0224
0701	Martha Thomas MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0207
0801	Martha Thomas MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1101	Melanie Faith TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 3136

1201	Melanie Faith TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0207
1301	Melanie Faith TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0207
1701	Mark Fitzgerald Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
1901	Mark Fitzgerald Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
9001	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
BL05	Catherine Bayly MF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 19) JMZ 1226 ONLINE
BL06	Catherine Bayly MF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 19) ATL 0201 ONLINE

ENGL391H Advanced Composition

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

For students in the University or departmental Honors program.

Click here for more course information.

0201	Mark Forrester MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1321

ENGL392 **Legal Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Conventions of legal writing and research. Students learn how to read and write about cases, statutes or other legislation; how to apply legal principles to fact scenarios; and how to present a written analysis for readers in the legal profession. Assignments may include the law-school application essay, case briefs, legal memos, and client letters.

Click here for more course information.

0201	Robin Earnest MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0224
0301	Robin Earnest MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0224
1101	William Schatz TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 2123
1201	William Schatz TuTh 11:00am - 12:15pm	Seats (Total: 19) SYM 0209
1301	John Kim TuTh 12:30pm - 1:45pm	Seats (Total: 19) BPS 1228
1601	Michael Winett M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232

1701	Michael Winett Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1801	Michael Winett W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Click here for more course information.

0001	Patrick Nelson MWF 8:00am - 8:50am	Seats (Total: 19) TWS 1105
0101	Caleb Kriesberg MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1106
0102	Laura Williams MWF 9:00am - 9:50am	Seats (Total: 19) KEY 0102
0201	Elliot Berger MWF 10:00am - 10:50am	Seats (Total: 19) JUL 1105
0202	Caleb Kriesberg MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0207
0301	Elliot Berger MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0207
0303	Joan Mooney MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0234
0401	Joan Mooney MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1105
0403	Caleb Kriesberg MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1168

0501	Elliot Berger MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0234
0701	Robert Oliver MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
0801	Robert Oliver MW 5:00pm - 6:15pm	Seats (Total: 19) LEF 1222
1001	Oliver Brearey TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1105
1101	Danuta Hinc TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0230
1102	Oliver Brearey TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0234
1201	Danuta Hinc TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0230
1402	Danuta Hinc TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0230
1505	Katherine Robinson TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230
1602	Kelly Cresap M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
1603	Gabriela Vlahovici-Jones M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
1702	Peter Grybauskas Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1801	Candace Orsetti W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1803	Kelly Cresap W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106

1901	Peter Grybauskas Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1902	Joshua Buursma Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105
9001	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Sajeela Yaqub Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9007	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9008	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9011	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE

BL21	David Miles M 2:00pm - 3:15pm W 2:00pm - 3:15pm	Seats (Total: 19) KEY 0117 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL22	Pamela Orel W 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 19) CHE 2116 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL23	David Miles M 3:30pm - 4:45pm W 3:30pm - 4:45pm	Seats (Total: 19) ASY 3217 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL24	Pamela Orel W 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 19) CHE 2116 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL31	David Miles M 5:00pm - 6:15pm W 5:00pm - 6:15pm	Seats (Total: 19) ASY 3217 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL42	David Miles M 8:00pm - 9:15pm W 8:00pm - 9:15pm	Seats (Total: 19) TWS 1105 ONLINE
BL51	Sheila Lalwani Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) SPH 0301 ONLINE
BL61	Sheila Lalwani Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) PLS 1158 ONLINE
BL62	Pamela Orel Th 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 19) HBK 0105 ONLINE

BL65	Sheila Lalwani Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) EDU 2102 ONLINE
BL66	Pamela Orel Th 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 19) EGR 1110 ONLINE
BL75	Sheila Lalwani Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm *Blended Learning courses combine face-to-face and online interactions.*	Seats (Total: 19) JMZ 1215 ONLINE
BL81	Sajeela Yaqub Th 5:00pm - 6:15pm Tu 5:00pm - 6:15pm *Blended Learning courses combine face-to-face and online interactions.*	Seats (Total: 19) TWS 3132 ONLINE
SA02	Chanon Adsanatham Contact instructor or department for details.	Seats (Total: 0)

ENGL393H **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Restricted to students in the University or departmental Honors program.

Click here for more course information.

BL01	Christopher Crane Tu 5:00pm - 6:15pm Th 5:00pm - 6:15pm	Seats (Total: 19) ONLINE TWS 1313

ENGL393Q **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

3001	Alexandra Calloway F 9:00am - 11:40am	Seats (Total: 19) TWS 1313

ENGL393X **Technical Writing**

(Perm req)

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Limited to students for whom English is a second language and who have a score below any of the following: SAT Verbal 400, TOEFL 575, CELT 250. Students who have received an "A" in ENGL 101 or its equivalent cannot register for ENGL 393X.

Click here for more course information.

1501	Daniel Saalfeld TuTh 3:30pm - 4:45pm	Seats (Total: 15) TWS 0224

ENGL394 **Business Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world-letters, memos, short reports, and proposals. Principles of rhetoric and effective style.

Click here for more course information.

0101	Mary Turner MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0207
0201	Mary Turner MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0234
0301	Ceil Goldberg MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0230

0401	Mary Turner MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0234
0402	Ceil Goldberg MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0230
0501	Ceil Goldberg MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0230
0601	Robert Oliver MW 2:00pm - 3:15pm	Seats (Total: 19) LEF 1201
0602	James Mattson MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234
0701	Blake Wilder MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0230
0801	Blake Wilder MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230
0802	James Mattson MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
1201	Adam Lloyd TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0234
1301	Adam Lloyd TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0234
1501	Danuta Hinc TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0230
1502	Elizabeth McClure TuTh 3:30pm - 4:45pm	Seats (Total: 19) KNI 1105
1505	Elizabeth McClure TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
1506	Holly Smith TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1107

1508	Holly Smith TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 1107
1701	Jonathan Rick Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1320
1902	Carol Cron Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
3001	Ellen Blumner F 9:00am - 11:40am	Seats (Total: 19) TWS 3252
9004	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9007	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9008	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
9011	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
BL01	Clare Parsons Tu 8:00am - 9:15am Th 8:00am - 9:15am	Seats (Total: 19) ONLINE TWS 0214

BL02	Clare Parsons Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) ONLINE TWS 3252
BL03	Clare Parsons Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) ONLINE ARC 1125
SG91	Katherine Robinson TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 19) BLD2 2062
SG98	Katherine Robinson MW 9:30am - 10:45am *Restricted to COMM majors at Shady Grove.*	Seats (Total: 19) BLD3 4203

ENGL395 **Writing for Health Professions**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

Click here for more course information.

0101	James Goodwin MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0234
0201	James Goodwin MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1105
0301	James Goodwin MWF 11:00am - 11:50am	Seats (Total: 19) TWS 1321
0401	Justin Lohr MWF 12:00pm - 12:50pm	Seats (Total: 19) ARC 1123

0501	Justin Lohr MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1105
0601	Michael Schmidt MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 1105
0801	Michael Schmidt MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
0901	Michael Schmidt MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 1105
1001	Joseph Angelella TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0205
1101	Joseph Angelella TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1105
1201	Joseph Angelella TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1105
1301	Kisa Lape TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0224
1402	Kisa Lape TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0224
1501	Kisa Lape TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0223
1505	Joseph Wappel TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
1507	Joseph Wappel TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 1313
1701	Kisa Lape Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230

ENGL398A **Topics in Professional Writing; Writing for the Arts**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL391A. Credit will be granted for only one of the following: ENGL398A or ENGL391A. Formerly ENGL391A. An advanced composition course which emphasizes writing about the arts.

1001	Caroline Wilkins TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1107
1101	Caroline Wilkins TuTh 9:30am - 10:45am	Seats (Total: 19) TLF 1101
1505	Douglas Kern TuTh 5:00pm - 6:15pm	Seats (Total: 19) HBK 0108
1601	Rachel Feingold M 6:30pm - 9:10pm	Seats (Total: 19) TWS 3132
1701	Rachel Feingold Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 3132

ENGL398B Topics in Professional Writing; Writing for Social Entrepreneurship

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0601	Eric Thiel MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207
0701	Eric Thiel MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
0801	Eric Thiel MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1106

1601	Mrim Boutla M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201
1701	Maurice Boissiere Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201
1901	Roxanne Clements Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201

ENGL398C **Topics in Professional Writing; Writing Case Studies and Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition course which emphasizes writing cases and investigative reports.

0701	Joshua Buursma MW 3:30pm - 4:45pm	Seats (Total: 19) SQH 1123
0801	Joshua Buursma MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1107
1507	Joshua Buursma MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 1107
SG91	Joseph Wappel TuTh 9:30am - 10:45am *Registration is restricted to CCJS-Shady Grove students.*	Seats (Total: 19) BLD3 2203
SG92	Joseph Wappel TuTh 11:00am - 12:15pm *Registration is restricted to CCJS-Shady Grove students.*	Seats (Total: 19) BLD3 2203

ENGL398E **Topics in Professional Writing; Writing about Economics**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394E. Credit will be granted for only one of the following : ENGL398E or ENGL394E. Formerly ENGL394E. A business writing class focusing on writing about economics.

0801	Michael Winett MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0224

ENGL398L **Topics in Professional Writing; Scholarly Writing in the Humanities**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition class focusing on the norms and procedures of advanced academic writing.

0301	Mark Forrester MWF 11:00am - 11:50am	Seats (Total: 19) TWS 1105

ENGL398N **Topics in Professional Writing; Writing for Non-Profit Organizations**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394N. Credit will be granted for only one of the following ENGL398N or ENGL394N. Formerly ENGL394N. A busniness writing class focusinog on writing about nonprofits.

0301	Rachel Feingold MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0223
0401	Rachel Feingold MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0223

0601	Elizabeth Fixsen MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0232
1001	David Todd TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0224
1101	David Todd TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0224
1201	David Todd TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0224
1301	Rebecca Holden TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0232
1401	Rebecca Holden TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0232

ENGL398R **Topics in Professional Writing; Writing Non-Fictional Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

1001	Pamela Gerhardt TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0232
1101	Pamela Gerhardt TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0232
1201	Pamela Gerhardt TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0232
1401	Stewart Foehl TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234

1501	Stewart Foehl TuTh 3:30pm - 4:45pm	Seats (Total: 19) SQH 2113
1505	Pamela Gerhardt TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0224

ENGL398V **Topics in Professional Writing; Writing about the Environment**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL393E. Credit will be granted for only one of the following ENGL398V or ENGL393E. Formerly ENGL393E.

1201	Ann Mason TuTh 11:00am - 12:15pm	Seats (Total: 19) WDS 1127
1301	Ann Mason TuTh 12:30pm - 1:45pm	Seats (Total: 19) SQH 1103
1501	Ann Mason TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
1701	Ann Mason Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105

ENGL402 **Chaucer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Works read in Middle English. Readings may include Canterbury Tales, Troilus and Criseyde, dream visions, lyrics.

0101	Thomas Moser TuTh 11:00am - 12:15pm	Seats (Total: 24) TWS 0201

ENGL403 **Shakespeare: The Early Works**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected works from the first half of Shakespeare's career. Generic issues of early histories, comedies, tragedies. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Shaun Stiemsma	Seats (Total: 24)
	MW 2:00pm - 3:15pm	TWS 0201

ENGL404 **Shakespeare: The Later Works**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected plays from the second half of Shakespeare's career. Generic issues of later tragedies, later comedies, romances. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Karen Nelson	Seats (Total: 24)
	TuTh 5:00pm - 6:15pm	TWS 0214

ENGL409A **Study Abroad Special Topics IV; Solitude in Life and Letters in Enlightenment Britain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409B **Study Abroad Special Topics IV; Shakespeare: The Play and the Book**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409D **Study Abroad Special Topics IV; Time, Narrative and Culture (Sem A)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409E **Study Abroad Special Topics IV; The Revolution Controversy: Politics and Genre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409F **Study Abroad Special Topics IV; Grand Tours: Nineteenth Century Adventure Stories for Young Readers and their Twentieth Century Afterlives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409G **Study Abroad Special Topics IV; Thomas Hardy and the Victorian Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409H **Study Abroad Special Topics IV; The Caribbean Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409I **Study Abroad Special Topics IV; The New York Century: Urban Literary Culture 1900-1999**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409L **Study Abroad Special Topics IV; Literature of London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409P **Study Abroad Special Topics IV; Phonies, Fakes, Liars and Conmen: Readings in Fact and Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL414 **Milton**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Poetry and major prose in their social, political, and literary-historical contexts. Special attention to Paradise Lost. Other works may include Samson Agonistes and shorter poems.

0201	Kim Coles	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 0221

ENGL416 **Literature of the Eighteenth Century, 1700-1750**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British literary traditions, including the poetry of Pope, the prose of Swift, the correspondence of Montagu, the drama of Gay, and early novels by Defoe, Richardson, and Fielding.

0101	Tita Chico	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 1106

ENGL419W **Major British Writers after 1800; James Joyce's Ulysses**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419X **Major British Writers after 1800; Virginia Woolf (Sem A)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419Y **Major British Writers after 1800; Reading William Blake**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL419Z **Major British Writers after 1800; DH Lawrence: Controversy and Legacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL420 **English Romantic Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British poetry, drama, fiction, and criticism c.1790 to c.1830, a perio of dramatic social change and revolution in literature, philosophy, the arts, industry, and politics. Authors include Austen, Wordsworth, Coleridge, Keats, Byron, Percy, and Mary Shelley.

Contact department for information to register for this course.

ENGL422 **English Victorian Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

A survey of English literature of the Victorian period. Writers may include Arnold, Browning, Tennyson, Dickens, George Eliot, Carlyle, Ruskin, Newman, and Wilde.

0101	Jason Rudy	Seats (Total: 24)
	MW 2:00pm - 3:15pm	TWS 1106

ENGL422A **English Victorian Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

A survey of English literature of the Victorian period. Writers may include Arnold, Browning, Tennyson, Dickens, George Eliot, Carlyle, Ruskin, Newman, and Wilde.

Contact department for information to register for this course.

ENGL425 **Modern British Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Major Modernist writers in English prose and poetry since 1900. Such writers as Eliot, Larkin, Forster, Burgess, Durrell, Henry Green, Golding, Auden, Malcolm Lowry, Joyce, and Yeats.

0101	Brian Richardson	Seats (Total: 24)
	TuTh 5:00pm - 6:15pm	TWS 0236

ENGL428F **Seminar in Language and Literature; Race, Class, and Narrative**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

Restriction: Junior standing. For ENGL majors only. Repeatable to 9 credits if content differs. Course intended primarily for students in English Honors Program. English majors with strong academic records may also apply. Permission from the Director of Honors required.

0101	Mary Washington	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	TWS 0236

ENGL429 **Independent Research in English**

(Perm req)

Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Prerequisite: ENGL301 and two English courses, excluding Fundamental Studies requirement.

Contact department for information to register for this course.

ENGL431 **American Literature: 1810 to 1865, the American Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Nationalism, Sentimentalism, Transcendentalism. Writers such as Douglass, Stowe, Melville.

0101	Edlie Wong	Seats (Total: 24)
	TuTh 11:00am - 12:15pm	TWS 0221

ENGL433 **American Literature: 1914 to the Present, the Modern Period**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism, Postmodernism. Writers such as Stevens, Stein, Ellison.

0101	Peter Mallios	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 1106

ENGL437 **Contemporary American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Prose, poetry, drama of living American writers. Current cultural and social issues.

0101	Lee Konstantinou	Seats (Total: 24)
	TuTh 5:00pm - 6:15pm	TWS 1106

ENGL439F **Major American Writers after 1865; Faulkner and His Literary Heirs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

0101	David Wyatt	Seats (Total: 24)
	TuTh 12:30pm - 1:45pm	TWS 0214

ENGL439G **Major American Writers after 1865; American Nobel Prize Winners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Also offered as ENGL439G. Credit granted for ENGL439G or AMST429G.

0101	Martha Nell Smith	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 0236

ENGL439M **Major American Writers after 1865; Major American Writers After 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL444 **Feminist Critical Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: WMST200, WMST250, or ENGL250. Also offered as: WMST444. Credit only granted for: ENGL444 or WMST444.

Issues in contemporary feminist thought that have particular relevance to textual studies, such as theories of language, literature, culture, interpretation, and identity.

Contact department for information to register for this course.

ENGL446 **Post-Modern British and American Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British and American poets from the 1930s to the present. Such poets as Auden, Williams, Plath, Brooks, Lowell, Wolcott, Ted Hughes, Bishop, Larkin, Jarrell, and Berryman.

0101	Elizabeth Arnold	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 1107

ENGL451 **Renaissance Drama II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Drama in early decades of the seventeenth century. Playwrights include Jonson, Middleton, Marston, Webster, Beaumont and Fletcher. Tragedy, city comedy, tragicomedy, satire, masque. Pre-Civil War theatrical, political, and religious contexts.

0101	Michael Olmert	Seats (Total: 24)
	MW 2:00pm - 3:15pm	TWS 0221

ENGL457 **The Modern Novel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism in the novel of the twentieth century. Such writers as Joyce, Lawrence, Murdoch, James, Forster, Faulkner, Hemingway, Fitzgerald, Ellison, Welty, Nabokov and Malamud.

Contact department for information to register for this course.

ENGL458A **Literature by Women after 1800; Gender, Race and Empire in Women's Writing 1780-1900**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected writings by women after 1800.

Contact department for information to register for this course.

ENGL465 **Theories of Sexuality and Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two lower-level English courses, at least one in literature; or permission of ARHU-English department. Also offered as: LGBT465. Credit only granted for: ENGL465 or LGBT465.

An in-depth study of the ways in which sexuality and sexual difference create or confound the conditions of meaning in the production of literary texts. Attention to psychoanalysis, history of sexuality, feminist theory, and other accounts of sexual identity.

Contact department for information to register for this course.

ENGL468A **Selected Topics in Film Studies; The Scene of Writing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced studies in various periods and genres of film.

Contact department for information to register for this course.

ENGL472 **African-American Literature: 1945 to Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Transformation of African-American literatures into modern and postmodern forms. Influenced by World War II and the Civil Rights and Black Power movements, this literature is characterized by conscious attempts to reconnect literary and folk forms, the emergence of women writers, and highly experimental fiction.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

Contact department for information to register for this course.

ENGL475 **Postmodern Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The origins and ongoing development of postmodern literature. Aspects o the "postmodern condition," such as the collapse of identity, the erasure of cultural and aesthetic boundaries, and the dissolution of life into textuality. The novel and other genres and media.

Contact department for information to register for this course.

ENGL478E **Selected Topics in English and American Literature before 1800; Story of Troy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Linda Coleman	Seats (Total: 24)
	TuTh 3:30pm - 4:45pm	TWS 0236

ENGL479W **Selected Topics in English and American Literature after 1800; Experimental Fiction and Narrative Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Brian Richardson	Seats (Total: 24)
	TuTh 3:30pm - 4:45pm	TWS 1107

ENGL487 **Foundations of Rhetoric**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL487 or COMM401.

Principles and approaches to the theory, criticism, and historical understanding of rhetorical discourse.

0101	Sara Wilder	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TWS 1107

ENGL488P **Topics in Advanced Writing; Digital Rhetoric: The Power of Sound**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Different genres of technical and professional writing including proposal writing, computer documentation, technical report writing, instruction manuals, etc. Students will analyze models of a genre, produce their own versions, test, edit and revise them.

0101	Sara Wilder	Seats (Total: 18)
	MW 3:30pm - 4:45pm	TWS 0224

ENGL492 **Web Authoring**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Students must have satisfied Fundamental Studies Academic Writing requirement. Credit only granted for: ENGL488A or ENGL492. Formerly: ENGL488A.

Workshop-based approach to web authoring from a rhetorical perspective, attending to issues of audience, purpose, medium, and context in design and development of web texts. How designers create meaning in web texts by structuring information, addressing messages, and composing arguments as a process of practical problem solving.

Students are encouraged to bring laptops to class meetings.

0101	Melanie Kill	Seats (Total: 20)
	TuTh 8:00am - 9:15am	TWS 3252

ENGL493 Advanced Writing Theory and Practice

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Satisfactory completion of professional writing requirement. Restriction: Must have earned a minimum of 60 credits.

Traditional and contemporary approaches to rhetoric and writing theory for advanced writing students who wish to develop their abilities to analyze and produce written texts in professional, public, digital, and/or advanced academic contexts.

Students are encouraged to bring laptops to class meetings.

0101	Melanie Kill	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TWS 3252

ENGL494 Editing and Document Design

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL393 or ENGL391; or students who have taken courses with comparable content may contact the department.

Principles of general editing for clarity, precision and correctness. Applications of the conventions of grammar, spelling, punctuation and usage, and organization for logic and accuracy. Working knowledge of the professional vocabulary of editing applied throughout the course.

Must have completed Fundamental Studies Professional Writing requirement.

0101	Susan Green	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	TWS 0207

ENGL495 Independent Study in Honors

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL373 and ENGL370. Restriction: Must be in English Language and Literature program; and candidacy for honors in English.

Completion and presentation of the senior honors project.

Contact department for information to register for this course.

ENGL498 **Advanced Fiction Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An advanced class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and to colleagues' fiction, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

Prerequisite: ENGL352 or ENGL396; or permission of department.

0101	Howard Norman W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3248
0201	Maud Casey Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252

ENGL499 **Advanced Poetry Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An advanced class in the making of poetry. Intensive discussion of students' own poems. Readings include both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, and attendance at poetry readings.

Prerequisite: ENGL353; or permission of ARHU-English department. Repeatable to 9 credits if content differs. Formerly: ENGL497.

0101	Elizabeth Arnold Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3250

ENGL601 **Literary Research and Critical Contexts**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

0101	Tita Chico	Seats (Total: 14)
	Th 3:30pm - 6:00pm	TWS 3248

ENGL602 **Critical Theory and Literary Criticism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to critical theory and literary criticism, with an overview of major movements (including formalism, structuralism and poststructuralism, Marxism, psychoanalysis, and feminism). Designed to help graduate students assess the various ways of approaching and writing about literature.

0101	Sangeeta Ray	Seats (Total: 14)
	W 12:00pm - 2:30pm	TWS 3134

ENGL611 **Approaches to College Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARHU-English department. Additional information: Required for graduate assistants (optional to other graduate students).

A seminar emphasizing rhetorical and linguistic foundations for the handling of a course in freshman composition.

0101	Scott Wible	Seats (Total: 14)
	M 12:00pm - 2:30pm	TWS 3136

ENGL621 **Readings in Renaissance English Literature**

Credits: 3 Grading Method: Regular, Audit

For ENGL majors only.

0101	Scott Trudell	Seats (Total: 14)
	M 6:30pm - 9:00pm	TWS 3136

ENGL626 **Readings in American Literature before 1865**

Credits: 3 Grading Method: Regular, Audit

For ENGL majors only.

0101	Robert Levine Tu 6:30pm - 9:00pm	Seats (Total: 14) TWS 3134

ENGL628D **Readings in African American Literature; Africana Theory and Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of English Department. Repeatable to 9 credits if content differs.Also offered as CMLT679J Credit granted for ENGL 628D or CMLT679J

0101	Zita Nunes Tu 3:30pm - 6:00pm	Seats (Total: 14) TWS 3136

ENGL658A **Readings in Multi-Ethnic Literatures of the Americas; Contemporary Latina/o Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Highlights the cultural diversity of American literatures from various periods, including Latino/a, Native American, Asian American, and African American literatures within and beyond the United States.

Restriction: Permission of English Department. Repeatable to 9 credits if content differs. Also offered as CMLT679F. Credit granted for ENGL 658A or CMLT679F.

0101	Randy Ontiveros M 3:30pm - 6:00pm	Seats (Total: 14) TWS 3250

ENGL679 **Professional and Career Mentoring for Master's Students**

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.

0107	Gabrielle Fuentes Contact instructor or department for details.	Seats (Total: 5)

ENGL688 **Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Poetry workshop.

0201	Michael Collier W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3134

ENGL689 **Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Fiction workshop.

0101	Gabrielle Fuentes W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3250

ENGL699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENGL708A **Seminar in Rhetoric; Feminist Memory Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Topics in rhetoric: history of rhetorical theory, modern rhetorical theory, rhetorical interpretation, composition theory, rhetoric of social groups.

Prerequisite: Permission of department.

0101	Jessica Enoch W 3:30pm - 6:00pm	Seats (Total: 11) TWS 3136

ENGL729F **Seminar in Eighteenth-Century Literature; Theatrical Migrations**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of department.

0101	Laura Rosenthal M 3:30pm - 6:00pm	Seats (Total: 11) TWS 3134

ENGL758A **Literary Criticism and Theory; Writing Off the Self, Texts at Play**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of department.

0101	Martha Nell Smith	Seats (Total: 11)
	Tu 3:30pm - 6:00pm	TWS 3134

ENGL758D **Literary Criticism and Theory; The Speculative Turn**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of department.

0101	Matthew Kirschenbaum	Seats (Total: 11)
	Tu 6:30pm - 9:00pm	TWS 3252

ENGL788F **Studies in Poetic Form; Ecopoetics: A Genealogy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of department.

0101	Joshua Weiner, Gerard Passannante	Seats (Total: 11)
	Th 3:30pm - 6:00pm	TWS 3134

ENGL798B **Critical Theory Colloquium**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

An intensive advanced exploration of current problems and issues in critical theory.

0101	Christina Walter	Seats (Total: 10)
	Contact instructor or department for details.	

ENGL798D **Critical Theory Colloquium; Digital Studies**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

An intensive advanced exploration of current problems and issues in critical theory.

Class meets in TWS 3136 on the following dates: 9/8, 10/6, 11/3, 12/8.

0101	Matthew Kirschenbaum	Seats (Total: 20)
	F 3:00pm - 5:00pm	Location: TBA

ENGL799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENGL809 **Academic Publishing Workshop**

(Perm req)

Credits: 1-2 Grading Method: Sat-Fail

A workshop for the preparation of articles of other critical writing fo publication in academic journals or other professional venues.

0101	Kellie Robertson	Seats (Total: 12)
	Contact instructor or department for details.	

ENGL878 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENMA Engineering, Materials Fall 2017

ENMA150 **Materials of Civilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

The discovery of new materials has shaped history and built civilizations. The utilization, properties and production techniques of materials from the Bronze Age up through modern times and into the future will be traced. These materials are explained by considering their atomic structure, the binding forces between atoms and their arrangement, and how controlling the structure controls the materials properties.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Robert Briber TuTh 3:30pm - 4:45pm W 2:00pm - 2:50pm	Seats (Total: 40) CHE 2108 CHE 2136	 Discussion
0102	Robert Briber TuTh 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 40) CHE 2108 KEB 2111	 Discussion

ENMA180 **Materials Science and Engineering: The Field and the Future**

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Overview of the profession and the components of the Materials Science and Engineering program. Students will become familiar with the departmental faculty, areas of specialization within MSE, professional society student chapter, research opportunities and other resources available to students.

0101	Isabel Lloyd M 4:00pm - 4:50pm	Seats (Total: 30) PHY 4221

ENMA300 **Introduction to Materials Engineering**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENME382. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Liyang Dai-Hattrick TuTh 11:00am - 12:15pm	Seats (Total: 120) CHE 2110	
0201	Mohamad Al-Sheikhly TuTh 8:00am - 9:15am	Seats (Total: 100) CHE 2110	
0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 120) CHE 2110	

ENMA312 **Experimental Methods in Materials Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Corequisite: ENMA460. Restriction: Junior standing or higher.

Introduction to experimental methods in materials characterization; synthesis of colloidal nanoparticles; X-ray diffraction and light scattering; optical microscopy; thermal conductivity and expansion; electrical measurements; heat capacity; computational materials design.

0101	Audaldo Ponce Tu 2:00pm - 3:15pm M 9:00am - 11:50am	Seats (Total: 10) KEB 1135 KEB 1135	 Lab
0102	Audaldo Ponce Tu 2:00pm - 3:15pm W 9:00am - 11:50am	Seats (Total: 10) EGR 3106 KEB 1135	 Lab

ENMA362 **Mechanical Properties**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Junior standing or higher; and permission of ENGR-Materials Science & Engineering department.

Overview of Mechanical Behavior, Elastic Behavior, Dislocations, Plastic Deformation, Strengthening of Crystalline Materials, Composite Materials, High Temperature Deformation of Crystalline Materials, Permanent Deformation of Noncrystalline Materials, Tensile Fracture at Low Temperatures, Engineering Aspects of Fracture, High Temperature Fracture, Fatigue, and Experimental determination of Mechanical Properties including Hardness of Metals and Strength of Metals, Polymers, Ceramics and Composites.

For ENMA majors only.

0101	Sreeramamurthy Ankem MW 12:00pm - 1:15pm Tu 9:00am - 11:00am	Seats (Total: 22) ANS 0412 KEB 1135	 Lab
0102	Sreeramamurthy Ankem MW 12:00pm - 1:15pm Th 9:00am - 11:00am	Seats (Total: 22) ANS 0412 KEB 1135	 Lab

ENMA400 **Introduction to Atomistic Modeling in Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300, MATH206, and ENMA460. Recommended: Basic knowledge in quantum mechanics (preferred but not required); basic knowledge in statistical mechanics (preferred but not required). Also offered as: ENMA600. Credit only granted for: ENMA489A, ENMA400, ENMA698A, or ENMA600. Formerly: ENMA489A.

This is an introductory course designed to study atomistic modeling and simulation techniques used in materials research. This course covers the theories, methods, and applications of atomistic-scale modeling techniques in simulating, understanding, and predicting the properties of materials. Specific topics include: molecular statics using empirical force fields; quantum mechanical methods including density functional theory; molecular dynamics simulations; and Monte Carlo and kinetic Monte Carlo modeling.

0101	Yifei Mo TuTh 9:30am - 10:45am	Seats (Total: 15) CHE 2136

ENMA422 **Radiation Effects of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300; and permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA422 or ENMA489E. Formerly: ENMA489E.

Ionizing radiation, radiation dosimetry and sensors, radiation processing, radiation effects on: polymers, metals, semiconductors, liquids, and gases. Radiation in advanced manufacturing, radiation-physical technology.

0101	Timothy Koeth MW 2:00pm - 3:15pm	Seats (Total: 30) ATL 2416	

ENMA425 **Introduction to Biomaterials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: BIOE453, CHBE457, or ENMA425.

Examination of materials used in humans and other biological systems in terms of the relationships between structure, fundamental properties and functional behavior. Replacement materials such as implants, assistive devices such as insulin pumps and pacemakers, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds, and biocompatibility will be covered.

0101	Christopher Jewell MWF 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 36) KEB 1200 EGR 3106	 Discussion
0102	Christopher Jewell MWF 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 30) KEB 1200 EGR 2116	 Discussion

ENMA441 **Characterization of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department; and senior standing. Credit only granted for: ENMA489T or ENMA441. Formerly: ENMA489T.

Techniques to characterize the properties of materials whose characteristic dimensions range from nanometers to macroscopic. These include conventional crystalline and noncrystalline materials, with a special attention to materials of current technological interest. The course will include recent results from the scientific literature.

0101	Raymond Phaneuf TuTh 12:30pm - 1:45pm	Seats (Total: 35) CHE 2136	

ENMA443 **Phontonic Materials, Devices and Reliability**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department; and junior standing or higher. Credit only granted for: ENMA443 or ENMA489Z. Formerly: ENMA489Z.

The course focuses on the understanding of the basic optical processes in semiconductors, dielectrics and organic materials. The application of such materials in systems composed of waveguides, light emitting diodes and lasers, as well as modulators is developed.

0101	Aristos Christou	Seats (Total: 22)
	TuTh 3:30pm - 4:45pm	CHE 2136

ENMA460 **Physics of Solid Materials**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in Engineering: Materials Science program. Also offered as: PHYS431. Credit only granted for: ENMA460 or PHYS431.

Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.

0101	Ichiro Takeuchi	Seats (Total: 50)
	MW 5:00pm - 6:15pm	CHE 2108

ENMA466 **Advanced Materials Fabrication Laboratory**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA465; and permission of ENGR-Materials Science & Engineering department.

This course allows students an opportunity to study advanced materials systems in depth through a combination of lectures and hands-on laboratory experiments. Students will be trained in materials processing and characterization techniques. Each student will fabricate materials and devices in our state-of-the-art nanofabrication clean room facility (Fablab), as well as evaluate them using a variety of characterization techniques.

0101	Gary Rubloff W 10:00am - 11:30am Tu 12:30pm - 3:30pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab
0102	Gary Rubloff W 10:00am - 11:30am M 9:00am - 12:00pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab
0103	Gary Rubloff W 10:00am - 11:30am F 12:30pm - 3:30pm	Seats (Total: 4) EGR 3114 KEB 2300	 Lab

ENMA471 **Kinetics, Diffusion and Phase Transformations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENMA461. Restriction: Junior standing or higher; or permission of ENGR-Materials Science & Engineering department.

Fundamentals of diffusion, the kinetics of reactions including nucleation and growth and phase transformations in materials.

0101	Manfred Wuttig TuTh 11:00am - 12:15pm	Seats (Total: 49) CHE 2118

ENMA473 **Engineering Using High Strength Metals and Alloys**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENMA300; and permission of ENGR-Materials Science & Engineering department.

This is a class focused on the materials engineering challenges of applying high strength metals and alloys to solutions. The extraordinary properties of these alloys derive from (1) highly metastable microstructures, (2) high strengths and melting points of the base metals, (3) complicated processing and fabrication procedures, and (4) their resulting complex behavior in extreme environments. This course will give you the knowledge base you need to select, apply and troubleshoot the performance of high strength metals and alloys in a variety of applications.

0101	Timothy Foecke TuTh 5:00pm - 6:15pm	Seats (Total: 26) CHE 2136

ENMA487 **Capstone Preparation**

Credits: 1 Grading Method: Regular

Restriction: Must be in Engineering: Materials Science program; and senior standing; and permission of ENGR-Materials Science & Engineering department.

In preparation for the senior level design course, students will do background research and develop white papers from which teams will form around short listed design projects. The projects should focus on a society, industry, military or technological based problem in Materials Science and Engineering leading to a design and strategy to address the problem in the following course, ENMA 490. The course will include written and oral presentations of the white papers and team proposals.

0101	Raymond Phaneuf	Seats (Total: 40)
	Contact instructor or department for details.	

ENMA499 **Senior Laboratory Project**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	John Cumings	Seats (Total: 6)
	Contact instructor or department for details.	

ENMA600 **Advanced Atomistic Modeling in Materials**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA600, ENMA 698A, ENMA400 or ENMA489A. Formerly: ENMA698A.

This is an advanced course designed to study atomistic modeling and simulation techniques used in materials research. This course covers the theories, methods, and applications of atomistic-scale modeling techniques in simulating, understanding, and predicting the properties of materials. Specific topics include: molecular statics using empirical force fields; quantum mechanical methods including density functional theory; molecular dynamics simulations; and Monte Carlo and kinetic Monte Carlo modeling.

0101	Yifei Mo	Seats (Total: 11)
	TuTh 9:30am - 10:45am	CHE 2136

ENMA626 **Fundamentals of Failure Mechanisms**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Also offered as: ENRE600. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600. Formerly: ENMA698M and ENMA698R.

Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.

0101	Aristos Christou	Seats (Total: 5)
	M 1:00pm - 3:40pm	JMP 2217

ENMA633 **Advanced Characterization of Soft Matter Materials**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Materials Science & Engineering department.

This course is focused on both the theories and experimental works of studying structure and dynamics of soft matter materials using scattering techniques (light, x-ray and neutron scattering). These scattering techniques can probe the structure from a few Angstrom to micrometer and the dynamics from picosecond to second, are thus widely used to reveal the structure-performance relationship of different materials. The course discusses the physics principles of these techniques and explains the details of general theories and commonly used models in characterizing soft matter materials such as polymer, protein, colloidal, thin film, and gel systems.

0101	Yun Liu	Seats (Total: 25)
	WF 5:00pm - 6:15pm	CHE 2118

ENMA643 **Advanced Photonic Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698Z, ENRE648Z, or ENMA643. Formerly: ENMA698Z.

The understanding of the basic optical processes in photonic devices an systems compsed of waveguides, light emitting diodes and lasers, as well as modulators is developed. Lectures on basic degradation mechanisms of such systems will be presented. The area of organic based LED reliability will be covered from the point of view of the stability of the organic-inorganic interface.

0101	Aristos Christou	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	CHE 2136

ENMA650 **Nanometer Structure of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENMA460; or students who have taken courses with comparable content may contact the department. And permission of ENGR-Materials Science & Engineering department.

The basic concepts required for understanding nanostructured materials and their behavior will be covered. Topics covered include the structural aspects of crystalline and amorphous solids and relationships to bonding types, point and space groups. Summary of diffraction theory and practice. The reciprocal lattice. Relationships of the microscopically measured properties to crystal symmetry. Structural aspects of defects in crystalline solids.

0101	Daniel Josell	Seats (Total: 26)
	MW 5:00pm - 6:15pm	CHE 2145

ENMA660 **Thermodynamics in Materials Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.

Thermodynamics of engineering solids. Thermal, diffusional and mechanical interactions in macroscopic systems. Systems in thermal contact, systems in thermal and diffusive contact, systems in thermal and mechanical contact.

0101	Oded Rabin	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMP 2202

ENMA680 **Determination of Structure, Chemical Composition and Defects in Materials**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENMA650.

Basic principles of electron microscopy theory, electron diffraction, and imaging theory. The electron beam sample interaction that gives rise to different signals is related to the structural and compositional information that is obtained from a sample using a TEM. The most common TEM techniques for structural characterization of a sample, namely, electron diffraction, bright/dark field imaging, and high resolution lattice imaging are discussed. Compositional information obtained from x-ray fluorescence and electron energy loss as well as the resolution of these techniques is also covered. A description of techniques used to study magnetic materials is also presented.

0101	Lourdes Salamanca-Riba TuTh 3:30pm - 4:45pm	Seats (Total: 22) EGR 1104	

ENMA683 **Structural Determination Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698L or ENMA683. Formerly: ENMA698L.

The operation of an electron microscope is covered. TEM techniques that are used to characterize the structure, defects and composition of a sample are presented and used to study a variety of materials. These techniques are: electron diffraction patterns, bright/dark field imaging, high resolution lattic imaging and energy dispersive x-ray spectroscopy. Also covers different sample preparation techniques for TEM. The goal is that the students become independent users of the TEM.

0101	Lourdes Salamanca-Riba Th 9:30am - 12:30pm	Seats (Total: 5) KEB 1237	Lab
0201	Lourdes Salamanca-Riba F 2:00pm - 5:00pm	Seats (Total: 5) KEB 1237	Lab

ENMA688 **Seminar in Materials Science and Engineering**

Credits: 1

Grading Method: Regular, Audit

Current research in materials science and engineering and related fields.

0101	Marina Leite, Gary Rubloff F 1:00pm - 2:30pm	Seats (Total: 38) CHE 2108

ENMA698 **Special Problems in Materials Science and Engineering**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

Credits: 3 Grading Method: Regular, Audit

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 5)
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENME Engineering, Mechanical Fall 2017

ENME201 **Careers in Mechanical Engineering**

Credits: 1 Grading Method: Sat-Fail

The Mechanical Engineering Curriculum, Career Paths. Research areas in the Mechanical Engineering Department. The Mechanical Engineering Profession.

0101	Kenneth Kiger, Jessica Stein	Seats (Total: 65)
	Th 12:30pm - 1:30pm	EGR 1202

ENME202 **Computing Fundamentals for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0101	Johan Larsson MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 42) JMP 3201 KEB 2111	 Lab
0102	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 42) JMP 3201 KEB 2111	 Lab
0103	Johan Larsson MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 29) JMP 3201 EGR 0312	 Lab

ENME208 **Introduction to Automotive Engineering and Design**

(Perm req)

Credits: 2 Grading Method: Regular

Selected concepts in automotive engineering and design at the introductory level utilizing the Terps Racing Baja SAE student project as a learning instrument. This class compliments ENME408, Automotive Design, which focuses on the Terps Racing Formula SAE car.

0101	Scott Schmidt Tu 6:30pm - 7:30pm Th 6:30pm - 8:30pm	Seats (Total: 10) JMP 1215 JMP 1215	 Discussion

ENME272 **Introduction to Computer Aided Design**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and must have completed or be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME 414 or ENME272.

Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.

0101	Babak Eslami M 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0201	Babak Eslami W 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0401	Babak Eslami Th 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0501	Babak Eslami Tu 8:00am - 9:50am	Seats (Total: 42) KEB 2111	

ENME331 **Fluid Mechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Also offered as: BIOE331. Credit only granted for: BIOE331 or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Kenneth Kiger MW 12:00pm - 12:50pm Tu 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	 Lab
0102	Kenneth Kiger MW 12:00pm - 12:50pm W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 JMP 1109	 Lab
0103	Kenneth Kiger MW 12:00pm - 12:50pm Th 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	 Lab
0104	Kenneth Kiger MW 12:00pm - 12:50pm Th 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 JMP 1109	 Lab
0105	Kenneth Kiger MW 12:00pm - 12:50pm Tu 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 CHE 2118	 Lab

0106	Kenneth Kiger MW 12:00pm - 12:50pm W 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 JMP 1109	 Lab

ENME332 **Transfer Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Marino diMarzo, Amir Riaz MW 9:00am - 9:50am Tu 1:00pm - 2:50pm	Seats (Total: 39) EGR 1202 JMP 2202	 Lab
0102	Marino diMarzo, Amir Riaz MW 9:00am - 9:50am W 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 JMP 2202	 Lab
0103	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Th 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 JMP 2202	 Lab
0104	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am F 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 JMP 2202	 Lab

ENME350 **Electronics and Instrumentation I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271 and PHYS270.

Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Jungho Kim MW 8:00am - 8:50am M 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab

0102	Jungho Kim MW 8:00am - 8:50am Th 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0103	Jungho Kim MW 8:00am - 8:50am W 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0104	Jungho Kim MW 8:00am - 8:50am Tu 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0105	Jungho Kim MW 8:00am - 8:50am M 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0106	Jungho Kim MW 8:00am - 8:50am Th 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab

ENME351 **Electronics and Instrumentation II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, ENME350, and PHYS270.

Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Steven Mitchell MW 10:00am - 10:50am Tu 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0102	Steven Mitchell MW 10:00am - 10:50am W 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0103	Steven Mitchell MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab

0104	Steven Mitchell MW 10:00am - 10:50am Tu 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab

ENME361 **Vibration, Controls and Optimization I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (ENME271 or MATH206). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Babak Eslami, Abhijit Dasgupta TuTh 9:30am - 10:45am	Seats (Total: 140) EGR 1202	

ENME371 **Product Engineering and Manufacturing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES221; and (ENME392 or STAT400). Restriction: Must be in Engineering: Mechanical program.

Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process.

0101	Vincent Nguyen MW 11:00am - 11:50am Th 5:00pm - 6:50pm	Seats (Total: 34) EGR 1202 EGL 0101	 Lab
0102	Vincent Nguyen MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 34) EGR 1202 EGL 0101	 Lab
0103	Vincent Nguyen MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 34) EGR 1202 EGL 0101	 Lab

0104	Vincent Nguyen MW 11:00am - 11:50am Th 7:00pm - 8:50pm	Seats (Total: 34) EGR 1202 EGL 0101	 Lab
0105	Vincent Nguyen MW 11:00am - 11:50am W 6:00pm - 7:50pm	Seats (Total: 34) EGR 1202 EGL 0101	 Lab

ENME382 **Introduction to Materials Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Liyang Dai-Hattrick TuTh 11:00am - 12:15pm	Seats (Total: 120) CHE 2110
0201	Mohamad Al-Sheikhly TuTh 8:00am - 9:15am	Seats (Total: 100) CHE 2110
0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 120) CHE 2110

ENME392 **Statistical Methods for Product and Processes Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Delivered via ITV.

0101	Peter Chung TuTh 11:00am - 12:15pm	Seats (Total: 103) JMP 3201

0201	David Bigio TuTh 9:30am - 10:45am	Seats (Total: 120) JMP 3201	

ENME400 **Machine Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0201	Chandrasekhar Thamire TuTh 10:00am - 10:50am Th 2:00pm - 3:50pm	Seats (Total: 80) SYM 0200 ATL 1113	 Discussion

ENME408 **Selected Topics in Engineering Design; Automotive Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components and engineering systems. Use of computers in design of multivariable systems.

Restriction: Must be in Engineering: Mechanical program; and senior standing. Or permission of ENGR-Mechanical Engineering department. Repeatable to 6 credits if content differs. Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components an engineering systems. Use of computers in design of multivariable systems.

0101	Leonard Hamilton MW 5:00pm - 6:15pm	Seats (Total: 55) JMP 3201	

ENME416 **Additive Manufacturing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. And ENME272; or ENME414. Restriction: Permission of ENGR-Mechanical Engineering department.

Develop a comprehensive understanding of fundamental additive manufacturing, 3D printing approaches, including: extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a design for-additive manufacturing skillset for CAD and CAM methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.

0101	Ryan Sochol MWF 12:00pm - 12:50pm	Seats (Total: 50) JMP 2121

ENME423 **Modern Climate Control and Building Energy Design/Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232. Corequisite: ENME332. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals and design calculations of heat and moisture transfer in buildings; evaluation of cooling, heating and power requirements of buildings; building energy consumption simulations, use of alternative energy and energy conservation measures in buildings; fundamentals of fans/pumps and air/water distribution in buildings; introduction to refrigeration and energy systems for data centers and other mission-critical facilities.

Delivered via ITV.

0101	Jelena Srebric, Mohammad Heidarinejad TuTh 3:30pm - 4:45pm	Seats (Total: 35) TYD 2110

ENME426 **Production Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: BMGT385 or ENME426.

The basic concepts and models needed to understand and design manufacturing systems, including the history of manufacturing, performance measures, queuing systems, variability, production planning and scheduling, lean manufacturing, and pull production control.

0101	Jeffrey Herrmann MW 2:00pm - 3:15pm	Seats (Total: 49) PHY 1402

ENME430 **Fundamentals of Nuclear Reactor Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamental aspects of nuclear physics and nuclear engineering, including nuclear interactions; various types of radiation and their effects on materials and humans; and basic reactor physics topics, including simplified theory of reactor critically.

0101	Robert Sanders TuTh 2:00pm - 3:15pm	Seats (Total: 35) JMP 2121	

ENME432 **Reactor and Radiation Measurements Laboratory**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME430 and MATH246. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENNU440. Credit only granted for: ENNU440 or ENME432.

Basics concepts of nuclear radiation and radiation detectors including types of radiation, radioactive decay, and interactions of radiation with matter.

0101	Michael Coplan, Matthew Forsbacka, Timothy Koeth Th 9:30am - 10:20am Th 4:00pm - 7:00pm	Seats (Total: 10) CHM 0124 CHE 1306	 Lab

ENME440 **Applied Machine Learning for Engineering and Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME392; or permission of instructor. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME440, ENME808E, or ENME743.

Learn how to apply techniques from Artificial Intelligence and Machine Learning to solve engineering problems and design new products or systems. Design and build a personal or research project that demonstrates how computational learning algorithms can solve difficult tasks in areas you are interested in. Master how to interpret and transfer state-of-the-art techniques from computer science to practical engineering situations and make smart implementation decisions.

0101	Mark Fuge TuTh 2:00pm - 3:15pm	Seats (Total: 15) CHE 2136	

ENME442 **Information Security**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have Senior standing in engineering; and permission of ENGR-Mechanical Engineering department. Also offered as: ENRE684. Credit only granted for: ENRE648J, ENME442, ENRE684, or ENPM808E.

The materials presented are divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier	Seats (Total: 24)
	TuTh 9:30am - 10:45am	JMP 2222

ENME444 **Assistive Robotics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals of assistive robots used in a wide varietyof ways to help humans with disabilities. Three application areas will be covered: (1) Rehabilitation robotics to recover motor function from neurologic injuries such as stroke, (2) Prosthetics to enable mobility function in amputees, and (3) Social robotics for cognitive impairment and developmental disorders such as autism. Theory behind different control systems employed by assistive robotics, as well as the mechanical design, sensors & actuators, and user interfaces behind representative robots in the respective areas. Guidelines for designing assistive robots. Ethical and regulatory considerations in the design of assistive robots.

0101	Anindo Roy	Seats (Total: 30)
	TuTh 9:30am - 10:45am	JMP 1109

ENME454 **Vehicle Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

The fundamentals of passenger vehicle and light truck design and vehicl dynamics are covered. The engineering principles associated with acceleration, braking, handling, ride quality, aerodynamics, and tire mechanics are discussed, as well as suspension and steering design.

0101	Vincent Nguyen MW 3:30pm - 4:45pm	Seats (Total: 66) JMP 3201	

ENME462 **Vibrations, Controls, and Optimization II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351 and ENME361.

Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

Delivered via ITV.

0101	Nikhil Chopra, Munther Hassouneh MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) JMP 3201 KEB 2111	 Discussion
0102	Nikhil Chopra, Munther Hassouneh MW 10:00am - 10:50am F 1:00pm - 2:50pm	Seats (Total: 40) JMP 3201 KEB 2111	 Discussion
0103	Munther Hassouneh, Nikhil Chopra MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 40) JMP 3201 KEB 2111	 Discussion
0201	Nikhil Chopra MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1108 KEB 2107	 Discussion
0202	Nikhil Chopra MW 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) EGR 1108 KEB 2107	 Discussion

ENME467 **Engineering for Social Change**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Mechanical Engineering department; and junior standing or higher.

Critical analysis of issues at the intersection of engineering, philanthropy and social change. How engineering design, products and processes have impacted social change in the past and will do so in the future. Topics covered include energy, sustainability and climate change, autonomy, the digital future, low cost engineering, manufacturing, ethics and the impact of electronics on society. Faculty and external experts will engage with students on these topics. Students will award a significant amount of grant money to an organization involved in technology for social change

Also offered as ENES467. Credit granted for ENME467 or ENES467.

0101	Davinder Anand F 1:00pm - 3:40pm	Seats (Total: 30) KEB 1200

ENME470 **Finite Element Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

0101	Guangming Zhang MWF 12:00pm - 12:50pm	Seats (Total: 42) KEB 2111
0201	Hugh Bruck M 4:00pm - 5:15pm W 4:00pm - 5:15pm	Seats (Total: 30) ITV 1100 EGR 0312

ENME472 **Integrated Product and Process Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENME371.

Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly.

0101	Shapour Azarm Tu 12:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 35) EGL 0101 EGR 1202	 Discussion

0102	Linda Schmidt Th 12:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 35) EGL 0101 EGR 1202	Discussion
0103	David Bigio W 4:00pm - 5:50pm TuTh 11:00am - 11:50am	Seats (Total: 35) EGL 0101 EGR 1202	Discussion
0104	Monifa Vaughn-Cooke F 1:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 30) EGL 0101 EGR 1202	Discussion
0106	Gary Pertmer Tu 2:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 35) EGL 0101 EGR 1202	Discussion

ENME473 **Mechanical Design of Electronic Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Design considerations in the packaging of electronic systems. Production of circuit boards and design of electronic assemblies. Vibration, shock, fatigue and thermal considerations.

Delivered via ITV.

0101	Bongtae Han MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2121

ENME484 **Analysis of Turbulent Flow**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENME657. Credit only granted for: ENME484 or ENME657.

Relentless growth in the speed and size of supercomputers has encouraged the ever expanding use of numerical simulation in the practice of fluids engineering. For the flow past ground vehicles, in the urban grid, re-entering rockets, helicopters landing on ships at sea and countless other examples, the flow is turbulent, and simulation is becoming or will one day become the methodology of choice in analyzing and designing such technologies. The goal of this course is to give an introduction to the analysis of turbulent flow via simulation and the modeling that is used in its development. Among the questions to be considered: What can one hope to learn from flow simulation? What are the strengths of the approach and what obstacles inhibit its application? What kind of physical considerations are required in setting up simulations? How does one analyze the results of a simulation?

0101	Peter Bernard	Seats (Total: 10)
	MW 11:00am - 12:15pm	EGR 2116

ENME486 **Computational Modeling, Simulation, and Interactive Visualization**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Creation of interactive graphic displays from the numerical simulation of mechanical engineering models. Brief description of each model provided, along with varied parameters to explore models' characteristics. Conclusions drawn from use of each interactive graphic. Mathematica language introduced and interwoven with the numerical simulation of the models, which will include: robotics and mechanisms, static response of beams, control systems, measurement systems, fluid flow, vibrations, geometric modeling, finite element analysis, and nonlinear phenomena.

0101	Edward Magrab	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	EGR 0312

ENME488 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Limited to mechanical engineering seniors.

Contact department for information to register for this course.

ENME489 **Special Topics in Mechanical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Contact department for information to register for this course.

ENME489B **Special Topics in Mechanical Engineering; Mechatronics and the Internet of Things**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME351; and permission of department.

0101	Don DeVoe	Seats (Total: 30)
	TuTh 9:30am - 10:45am	EGR 3108

ENME489C **Special Topics in Mechanical Engineering; Medical Robotics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Co-req ENME361 Permission of the Department.

0101	Axel Krieger	Seats (Total: 30)
	MW 2:00pm - 3:15pm	EGR 0135

ENME489E **Special Topics in Mechanical Engineering; Design for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Senthil Arul	Seats (Total: 45)
	TuTh 5:00pm - 6:15pm	CHE 2118

ENME489F **Special Topics in Mechanical Engineering; Dynamics of Atmospheric Flight**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME331.

0201	David Findlay	Seats (Total: 10)
	W 3:30pm - 6:10pm	JMP 2120

ENME489G **Special Topics in Mechanical Engineering; Manufacturing Processes and Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisites: ENME382; and permission of department.

0101	Ho Yeung	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EGR 1104

ENME489M **Special Topics in Mechanical Engineering; Ultra Energy Efficient Thermal System Design II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Pre-req ENES232, preferred ENME332

0101	Yunho Hwang	Seats (Total: 15)
	M 3:30pm - 6:10pm	MTH 0402

ENME489R **Special Topics in Mechanical Engineering; Fiber Optics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: Senior standing and department permission.

0101	Miao Yu	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	MTH B0423

ENME489V **Special Topics in Mechanical Engineering; Mechanical Contracting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Gary Pertmer, Michael Mack	Seats (Total: 31)
	Th 8:00am - 10:40am	EGR 2154

ENME489X **Special Topics in Mechanical Engineering; Energy Conversion Systems for Sustainability**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES232.

0101	Ashwani Gupta	Seats (Total: 65)
	Th 4:00pm - 6:40pm	JMP 3201

ENME489Z **Special Topics in Mechanical Engineering; Structural Mechanics - Aerospace Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES220 and MATH246. Restriction: permission of department.

0201	David John Barrett	Seats (Total: 10)
	MW 8:00am - 9:15am	JMP 2120

ENME610 **Engineering Optimization**

Credits: 3

Grading Method: Regular, Audit

Overview of applied single- and multi- objective optimization and decision making concepts and techniques with applications in engineering design and/or manufacturing problems. Topics include formulation examples, concepts, optimality conditions, unconstrained/constrained methods, and post-optimality sensitivity analysis. Students are expected to work on a semester-long real-world multi-objective engineering project.

0101	Shapour Azarm	Seats (Total: 25)
	Tu 4:00pm - 6:40pm	ITV 1100

ENME611 **Fiber Optics**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENME611,ENME808 or ENME489R. Formerly: ENME808R.

Introduces students to fiber optics, provides a background including fiber optic components and terminology, and equip students with ability to understand and evaluate various kinds of fiber optic sensors for a wide range of applications along with a detailed understanding of relevant signal processing and analysis techniques.

0101	Miao Yu	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	MTH B0423

ENME631 **Advanced Conduction and Radiation Heat Transfer**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME332; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Theory of conduction and radiation. Diffused and directional, poly- and mono-chromatic sources. Quantitative optics. Radiation in enclosures. Participating media. Integrodifferential equations. Multidimensional, transient and steady-state conduction. Phase change. Coordinate system transformations.

0101	Bao Yang	Seats (Total: 25)
	MW 2:00pm - 3:15pm	PHY 4221

ENME640 **Fundamentals of Fluid Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed partial differential equations at the level of MATH 462; or permission of ENGR-Mechanical Engineering department. Formerly: ENME651.

Equations governing the conservation of mass, momentum, vorticity and energy in fluid flows. Low Reynolds number flows. Boundary layers. The equations are illustrated by analyzing a number of simple flows. Emphasis is placed on physical understanding to facilitate the study of advanced topics in fluid mechanics.

0101	Peter Bernard	Seats (Total: 30)
	MW 3:30pm - 4:45pm	CHE 2136

ENME657 **Analysis of Turbulent Flow**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME640; and (ENME641; or students who have taken courses with comparable content may contact the department). Or permission of instructor.

Mathematical representation of turbulent transport, production and dissipation. Closure schemes for predicting flows. Recent advances in direct and large eddy numerical simulation techniques.

0101	Peter Bernard	Seats (Total: 15)
	MW 11:00am - 12:15pm	EGR 2116

ENME662 **Linear Vibrations**

Credits: 3 Grading Method: Regular, Audit

Development of equations governing small oscillations and spatially continuous systems. Newton's equations, Hamilton's principle, and Lagrange's equations. Free and forced vibrations of mechanical systems. Modal analysis. Finite element discretization and reductions of continuous systems. Numerical methods. Random vibrations.

0101	Amr Baz	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	EGR 2116

ENME670 **Continuum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Mechanics of deformable bodies, finite deformation and strain measures, kinematics of continua and global and local balance laws. Thermodynamics of continua, first and second laws. Introduction to constitutive theory for elastic solids, viscous fluids and memory dependent materials. Examples of exact solutions for linear and hyper elastic solids and Stokesian fluids.

0101	Teng Li	Seats (Total: 25)
	MW 11:00am - 12:15pm	EGR 3106

ENME690 **Mechanical Fundamentals of Electronic Systems**

Credits: 3 Grading Method: Regular, Audit

An understanding of the fundamental mechanical principles used in desig of electronic devices and their integration into electronic systems will be provided. Focus will be placed on the effect of materials compatibility, thermal stress, mechanical stress, and environmental exposure on product performance, durability and cost. Both electronic devices and package assemblies will be considered. Analysis of package assemblies to understand thermal and mechanical stress effects will be emphasized through student projects.

0101	Bongtae Han MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2121
ER01	Bongtae Han Class time/details on ELMs	Seats (Total: 8) ONLINE
RE01	Bongtae Han Class time/details on ELMs	Seats (Total: 3) ONLINE

ENME701 **Sustainable Energy Conversion and the Environment**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENME633. Credit only granted for: ENME701, ENME706 or ENME808D. Formerly: ENME706 and ENME808D.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. Introduces a range innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy.

0101	Jiazhen Ling, K Radermacher Tu 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217
ME01	Jiazhen Ling, K Radermacher Class time/details on ELMs	Seats (Total: 10) ONLINE

ENME737 **Prognostics and Health Management**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENME737 or ENME808A. Formerly: ENME808A.

Prognostics and health management (PHM) is an enabling discipline consisting of technologies and

0101	Michael Pecht M 9:30am - 12:10pm	Seats (Total: 20) JMP 2216
ER01	Michael Pecht Class time/details on ELMs	Seats (Total: 10) ONLINE

RE01	Michael Pecht	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

ENME741 **Operations Research Models in Engineering**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: (ENCE302; or (ENME271 and ENME392)); and (MATH140 and MATH240). Or permission of instructor. Credit only granted for: ENME738, ENME741, or ENCE603. Formerly: ENME738.

A survey of the fundamentals of operations research models and methods in engineering including: optimization using linear programming, nonlinear programming, integer programming, as well as equilibrium/game theory via mixed complementarity problems. Examples of specialized course items include: specifics of optimizing power and gas networks, discussion of other network optimization problems, resource-constrained problems, two-level optimization as an example of mixed integer nonlinear programming (MINLP) programming problems as well as algorithms to solve the above types of problems."

0101	Steven Gabriel	Seats (Total: 15)
	W 8:30am - 11:00am	JMP 2216

ENME743 **Applied Machine Learning for Engineering and Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate level Statistics (ENME392 or equivalent), or permission of the instructor. Credit only granted for: ENME440, ENME808E OR ENME743.

Learn how to apply techniques from Artificial Intelligence and Machine Learning to solve engineering problems and design new products or systems. Design and build a personal or research project that demonstrates how computational learning algorithms can solve difficult tasks in areas you are interested in. Master how to interpret and transfer state-of-the-art techniques from computer science to practical engineering situations and make smart implementation decisions.

0101	Mark Fuge	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	CHE 2136

ENME744 **Additive Manufacturing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME272 and ENME331; or students who have taken courses with comparable content may contact the department. Also offered as: ENME416. Credit only granted for: ENME 416 OR ENME 744.

Develop a comprehensive understanding of fundamental additive manufacturing-alternatively, "three-dimensional (3D) printing-approaches, including extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a "design-for-additive manufacturing" skill set for combining computer-aided design (CAD) and computer-aided manufacturing (CAM) methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.

DE01	Ryan Sochol Class time/details on ELMs	Seats (Total: 20) ONLINE

ENME770 **Life Cycle Cost and System Sustainment Analysis**

Credits: 3 Grading Method: Regular, Audit

This course melds elements of traditional engineering economics with manufacturing process and sustainment modeling, and life cycle cost management concepts to form a practical foundation for predicting the cost of products and systems. Various manufacturing cost analysis methods will be presented including: process-flow, parametric, cost of ownership, and activity based costing. The effects of learning curves, data uncertainty, test and rework processes, and defects will be considered. Aspects of system sustainment including the impact on the life cycle (and life cycle costs) of reliability, maintenance, environmental impact, and obsolscence will be treated.

0101	Peter Sandborn Tu 1:00pm - 3:40pm	Seats (Total: 25) JMP 2222
ER01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE

ENME799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME808I **Advanced Topics in Mechanical Engineering; Interfacial Fluid Mechanics**

Credits: 3 Grading Method: Regular, Audit

0101	Siddhartha Das	Seats (Total: 25)
	MW 5:00pm - 6:15pm	EGR 1102

ENME808M **Advanced Topics in Mechanical Engineering; Medical Robotics**

Credits: 3 Grading Method: Regular, Audit

0101	Axel Krieger	Seats (Total: 10)
	MW 2:00pm - 3:15pm	EGR 0135

ENME808P **Advanced Topics in Mechanical Engineering; Ultra Energy Efficient Thermal System Design II**

Credits: 3 Grading Method: Regular, Audit

0101	Yunho Hwang	Seats (Total: 20)
	M 3:30pm - 6:10pm	PHY 1402

ENME808R **Advanced Topics in Mechanical Engineering; Data-Driven Modeling and Estimation in Dynamical Systems**

Credits: 3 Grading Method: Regular, Audit

0101	Jin-Oh Hahn	Seats (Total: 25)
	MW 5:00pm - 6:15pm	EGR 3102

ENME808X **Advanced Topics in Mechanical Engineering; Mathematical Foundations for Computer Engineering**

Credits: 3 Grading Method: Regular, Audit

0101	Uzi Vishkin	Seats (Total: 10)
	MW 12:30pm - 1:45pm	EGR 3114

ENME808Z **Advanced Topics in Mechanical Engineering; Analysis of Structural Elements**

Credits: 3 Grading Method: Regular, Audit

Also offered as ENAE788P. Credit only granted for ENME808Z or ENAE788P.

0201	Olivier Bauchau MW 2:00pm - 3:15pm	Seats (Total: 15) ANS 0412

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENPM Engineering, Professional Masters Fall 2017

ENPM600 **Probability and Stochastic Processes for Engineers**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate introduction to discrete and continuous probability.

Axioms of probability; conditional probability and Bayes' rule; random variables, probability distributions and densities; functions of random variables; definition of stochastic process; stationary processes, correlation functions, and power spectral densities; stochastic processes and linear systems; estimation and optimum filtering. Applications in communication and control systems, signal processing, and detection and estimation.

0101	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
HT01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM603 **Theory and Applications of Digital Signal Processing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate introduction to discrete-time systems.

Uniform sampling and the sampling theorem; the Z-transform and discrete-time system analysis; multi-rate systems; discrete-time random processes; methods for designing FIR and IIR digital filters; effects of quantization and finite work-length; the DFT and FFT; power spectrum estimation.

0101	Emre Gunduzhan Th 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217
HT01	Emre Gunduzhan Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SG01	Emre Gunduzhan Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Emre Gunduzhan Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM610 **Digital VLSI Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate courses in solid state devices and digital/analog circuit design.

VLSI design with emphasis on CMOS technology. Logic functions using CMOS switches; MOSFET characteristics; BiCMOS, dynamic logic and domino logic structures; PLA's, FPLA's, and gate arrays; layout via MAGIC, use of VHDL, IRSIM, and Spice; design rules and verification techniques; packaging techniques; chip design options: standard cells, sea-of-gates, full custom; design capture and verification tools; design of CMOS datapaths, memory, and control; possible fabrication via MOSIS.

0101	Manoj Franklin W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2216

HT01	Manoj Franklin W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Manoj Franklin W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Manoj Franklin W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM611 **Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Competency in one programming language; and must have completed an undergraduate software engineering course. Or permission of instructor. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Software engineering concepts, methods, and practices important to both the theorist and the practitioner will be covered. The entire range of responsibilities expected of a software engineer are presented. The fundamental areas of requirements development, software design, programming languages, and testing are covered extensively. Sessions on supporting areas such as systems engineering, project management, and software estimation are also included.

0101	Christopher Ackermann M 7:00pm - 9:40pm	Seats (Total: 50) JMP 2121
HT01	Christopher Ackermann M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Christopher Ackermann M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Christopher Ackermann M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM613 **Software Design & Implementation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM611. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Software design concepts and practices within the field important to both the practitioner and the theorist will be covered. Architectural and detailed designs are included for batch, client/server, and real-time systems. Design considerations for structured, object-oriented, and Web-based systems are covered. Design of databases, user interfaces, forms, and reports are also included. Implementation issues that affect the design, including error handling, performance, and inter-process communication, are presented.

0101	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 35) JMP 2121
HT01	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Ioana Rus W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM616 **Wireless Communications: Concepts and Technologies**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM 616 or ENPM 808T. Formerly: ENPM 808T.

Advanced topics in wireless communications for voice, data, and multimedia. Overview of current wireless systems and standards followed by characterizing the wireless channel, including path loss for different environments, random log-normal shadowing due to signal attenuation, and the flat and frequency-selective properties of multipath fading. Fundamental capacity limits of wireless channels and the characteristics of the capacity-achieving transmission strategies. Overview of wireless networks, including multiple and random access techniques, WLANs, cellular system design, and ad-hoc network design. Applications for these systems, including the evolution of cell phones and PDAs, smart homes and appliances, sensor networks, and automated highways and skyways.

0101	Kamran Etemad Th 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
HT01	Kamran Etemad Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Kamran Etemad Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	Kamran Etemad Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM620 **Computer Aided Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Credit only granted for: ENPM620 or ENRE620/ENNU620.

Computer assisted approach to the solution of engineering problems. Review and extension of undergraduate material in applied mathematics including linear algebra, vector calculus, differential equations, and probability and statistics.

A laptop or Tablet PC is required for in-class use.

0101	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 20) JMP 2222
HT01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
ME01	Gilad Sharon Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM622 **Energy Conversion I - Stationary Power**

Credits: 3 Grading Method: Regular, Audit

Thermal engineering of modern power generation systems. Cycle analysis of various modern power generation technologies including gas turbine, combined cycle, waste burning and cogeneration. Energy storage and energy transport.

0101	Patrick Caton W 4:00pm - 6:40pm	Seats (Total: 30) JMP 2216

DE01	Patrick Caton Class time/details on ELMs	Seats (Total: 5) ONLINE
HT01	Patrick Caton W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
ME01	Patrick Caton Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Patrick Caton W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Patrick Caton W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM624 **Renewable Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Knowledge of thermodynamics, fluid mechanics, and heat transfer; and permission of ENGR-Office of Advanced Engineering Education. Credit only granted for: ENPM624 or ENME701.

Thermodynamics and heat transfer of renewable energy sources for heating, power generation and transportation. Wind energy, solar thermal, photovoltaic, biomass, waste burning, and hydropower. Broad overview of the growing use of renewable energy sources in the world economy with detailed analysis of specific applications.

0101	Zachary Dunbar M 4:00pm - 6:40pm	Seats (Total: 20) JMP 2222
HT01	Zachary Dunbar M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
ME01	Zachary Dunbar Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Zachary Dunbar M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Zachary Dunbar M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM630 **Fundamentals of Solid-Propellant Combustion**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Previous coursework in combustion. Credit only granted for: ENPM808G or ENPM630. Formerly: ENPM808G.

Solid propellants are used in a variety of engineering applications, from space and defense (rocket motors, oxygen candles and gun powders) to safety applications (air bags, fire suppression, and emergency oxygen supplies). Both the design of new propellant systems, and the optimization of existing propellants for particular applications, requires knowledge of the complex thermochemical processes involved in the processing, handling, ignition, and combustion of these systems. This course aims to review historical and current developments in this field and provide students with an understanding of the fundamental physics and thermodynamics of solid propellant combustion.

PE01	Forrest Svingala Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM641 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE621. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 17) JMP 2216
0201	David Alldredge M 7:00pm - 9:40pm	Seats (Total: 24) EGR 1102
DE01	Tony Barber Class time/details on ELMs	Seats (Total: 4) ONLINE

HT01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA

ENPM643 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENSE622 or ENPM642; and permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE623. Credit only granted for: ENPM642 or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
DE01	Matthew Forsbacka Class time/details on ELMs	Seats (Total: 1) ONLINE
HT01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENPM646 **System Life Cycle Cost Analysis and Risk Management**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE626. Credit only granted for: ENPM646 or ENSE626.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Relevant analytic tools from probability and statistics and important managerial and organizational concepts. Extensive use is made of case studies from industry andgovernment.

Also offered as ENSE626.

0101	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
DE01	Nidak Sumrean Class time/details on ELMs	Seats (Total: 4) ONLINE
HT01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA

ENPM651 **Heat Transfer for Modern Application**

Credits: 3

Grading Method: Regular, Audit

The applications selected will vary widely: from cooling of electronics to prevention of fog and stalagmite formation in ice rinks. Multi-mode (i.e. simultaneous conduction, convection, radiation, mass transfer) problems will be emphasized. Lectures on basic principles, followed by assignments in which students formulate solutions and explain results.

0101	Yunho Hwang Tu 4:00pm - 6:40pm	Seats (Total: 20) JMP 2222
HT01	Yunho Hwang Tu 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ME01	Yunho Hwang Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Yunho Hwang Tu 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Yunho Hwang Tu 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM660 **Wind Energy Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM808Q or ENPM660. Formerly: ENPM808Q.

An examination of four central topics in wind energy engineering: the nature of wind energy as a resource for generating electricity; the aerodynamics of wind turbines by which the wind energy is converted into mechanical energy; the mechanics and dynamics of the wind energy system (tower, rotor, hub, drive train, and generator); and the electrical aspects of wind turbines. Additional topics to be included in the course include:Wind turbine design; wind turbine control; wind turbine siting, system design, and integration; Wind energy system economics; and wind energy systems environmental impacts and aspects. The course is intended to pass along substantial subject matter knowledge and skills, it can only be treated as an introduction to this extensive, multidisciplinary topic. However, students are expected to emerge with a substantial knowledge of wind energy systems and the methods used to analyze such systems.

ME01	James Turso Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM662 **Introduction to Robot Modeling**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM662 or ENPM808M. Formerly: ENPM808M.

This course introduces basic principles for modeling a robot. Most of the course is focused on modeling manipulators based on serial mechanisms. The course begins with a description of the homogenous transformation and rigid motions. It then introduces concepts related to kinematics, inverse kinematics, and Jacobians. This course then introduces Eulerian and Lagrangian Dynamics. Finally, the course concludes by introducing basic principles for modeling manipulators based on parallel mechanisms. The concepts introduced in this course are subsequently utilized in control and planning courses.

0101	William Levine W 4:00pm - 6:40pm	Seats (Total: 52) JMP 2121
FL01	William Levine W 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA
	This section is for NAVAIR Cohort students located in Florida only.	
HT01	William Levine W 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA
SG01	William Levine W 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA
SM01	William Levine W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM667 **Control of Robotic Systems**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM667 or ENPM808Q. Formerly: ENPM808Q.

This is a basic course on the design of controllers for robotic systems. The course starts with mainstay principles of linear control, including a review of elementary concepts of systems, and discusses applications to independent joint control. The second part of the course introduces a physics-based approach to control design that uses energy and optimization principles to tackle the design of controllers that exploit the underlying dynamics of robotic systems. The course ends with an introduction to force control and basic principles of geometric control if time allows.

0101	Waseem Malik Tu 7:00pm - 9:40pm	Seats (Total: 60) JMP 3201
DE01	Waseem Malik Class time/details on ELMs	Seats (Total: 10) ONLINE
FL01	Waseem Malik Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
	This section is for NAVAIR Cohort students located in Florida only.	
HT01	Waseem Malik Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SG01	Waseem Malik Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Waseem Malik Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM672 **Fundamentals for Thermal Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate engineering, physics or chemistry degree. Restriction: Permission of ENGR-Office of Advanced Engineering Education.

Included in this course is an introduction to thermodynamics, fluid mechanics and heat transfer. Emphasis is on gaining an understanding of the physical concepts through the solving of numerical problems associated with simple thermal fluid processes and cycles. Both ideal gases and multiphase fluids will be considered as the working fluids.

ME01	Kristen Hines Class time/details on ELMs	Seats (Total: 25) ONLINE

ENPM687 **Digital Forensics and Incidence Responses**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line. Credit only granted for: ENPM808P or ENPM687. Formerly: ENPM808P.

Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.

CY01	Kevin Shivers Class time/details on ELMs	Seats (Total: 40) ONLINE

ENPM691 **Programming in C for Cybersecurity Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE150; or students who have taken courses with comparable content may contact the department.

Teaches the fundamentals of secure programming in C. An in depth discussion on various security vulnerabilities (e.g., buffer overflows) in C applications will be taught with hands-on demo of concepts during the class. Students will learn how a C program runs "under-the-hood". The course will teach nitty-gritty of C programs by analyzing at the assembly level. The course discusses best practices (e.g., coding standards) and design principles for secure programming so that security can be built-in during design time. In addition to assignments, students are required to present papers related to this course.

0101	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 50) JMP 2121
CY01	Dharmalingam Ganesan Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Dharmalingam Ganesan Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM693 **Network Security**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: An operating systems and/or network protocol course or equivalent. Formerly: ENPM808N.

Introduction to various approaches to design; specify and verify security protocols used in large systems and networks; familiarization with some current technologies. Security threats and countermeasures, communication security and basic encryption techniques, authentication protocols, data confidentiality and integrity, analysis of cryptographic protocols, and access control in large systems and networks.

0101	Sohraab Soltani M 4:00pm - 6:40pm	Seats (Total: 52) JMP 2121
CY01	Sohraab Soltani Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Sohraab Soltani M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

SG01	Sohraab Soltani M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Sohraab Soltani M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM694 **Networks and Protocols**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM694 or ENPM808A. Formerly: ENPM808A.

Provides a deep understanding of TCP/IP protocol suit and routing in the internet. The course topics are: overview of TCP/IP, basics of IP protocol, basics of TCP protocol, Network Address Translation (NAT), Dynamic Host Configuration Protocol (DHCP), Internet Protocol Security (IPsec), Internet Control Message Protocol (ICMP), Simple Mail Transfer Protocol (SMTP), Domain Name Service (DNS), IPv6, Concepts of routing (Bellman-Ford and Dijkstra algorithms), Routing Information Protocol (RIP), Open Shortest Path First (OSPF), Interior Gateway Routing Protocol (IGRP), Enhance Gateway Routing Protocol (EIGRP), and Border Gateway Protocol (BGP).

0101	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 60) JMP 3201
CY01	Sohraab Soltani Class time/details on ELMs	Seats (Total: 15) ONLINE
HT01	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Sohraab Soltani W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA

ENPM696 **Reverse Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM691 and CMSC106; or permission of instructor. And permission of ENGR-CDL-Office of Advanced Engineering Education. Credit only granted for: ENPM808F or ENPM696. Formerly: ENPM808F.

An in-depth understanding of software reverse engineering concepts and hands-on training with reverse engineering tools, including disassemblers, decompilers, and code analyzers. Students will become familiar with both low-level software and the x86 instruction set through binary reversing sessions. This course also provides insights into many subjects such as system security, source code analysis, software design, and program understanding that will be beneficial in a variety of fields.

0101	Allen Hazelton Tu 7:00pm - 9:40pm	Seats (Total: 30) JMP 2121
CY01	Allen Hazelton Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Allen Hazelton Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Allen Hazelton Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Allen Hazelton Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	George Syrmos Contact instructor or department for details.	Seats (Total: 10)

ENPM808D **Advanced Topics in Engineering; Network System Design**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Ali Namazi Tu 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120

HT01	Ali Namazi Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Ali Namazi Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Ali Namazi Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808F **Advanced Topics in Engineering; Robot Learning**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

Machine learning may be used to greatly expand the capabilities of robotic systems, and has been applied to a variety of robotic system functions including planning, control, and perception. This course wil explore the application of machine learning techniques, paradigms, and control design to robotic systems, focusing primarily on key useful representations and model building techniques for application in non-stationary robotic systems.

0101	Donald Sofge M 7:00pm - 9:40pm	Seats (Total: 60) JMP 3201
FL01	Donald Sofge M 7:00pm - 9:40pm *This section is for NAVAIR Cohort students located in Florida only.*	Seats (Total: 5) Location: TBA
HT01	Donald Sofge M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Donald Sofge M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Donald Sofge M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808G **Advanced Topics in Engineering; Additive Manufacturing for Aerospace, Energy and Water Applications**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Farah Singer, Amir Shooshtari Th 7:00pm - 9:40pm	Seats (Total: 20) JMP 2222
DE01	Michael Ohadi Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Michael Ohadi Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Michael Ohadi Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Michael Ohadi Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808K **Advanced Topics in Engineering; Human Robot Interaction**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 35) JMP 3201
FL01	Josef Schaff Th 7:00pm - 9:40pm *This section is for NAVAIR Cohort students located in Florida only.*	Seats (Total: 5) Location: TBA
HT01	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	Josef Schaff Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808N **Advanced Topics in Engineering; Urban Stormwater Management**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Houng Li Th 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
DE01	Houng Li Class time/details on ELMs	Seats (Total: 5) ONLINE
HT01	Houng Li Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Houng Li Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Houng Li Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808Q **Advanced Topics in Engineering; Energy Policy**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	John Taber Tu 7:00pm - 9:40pm	Seats (Total: 20) JMP 2216
DE01	John Taber Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	John Taber Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SG01	John Taber Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	John Taber Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808T **Advanced Topics in Engineering; Compilers**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 17) JMP 2120
HT01	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SG01	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Jerry Wu Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808X **Advanced Topics in Engineering; Software Development for Robotics**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

DE01	David Pietrocola Class time/details on ELMs	Seats (Total: 40) ONLINE

ENPM808Y **Advanced Topics in Engineering; Fundamentals of Energetic Materials: Applications, Technology and Safety**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

PE01	Ruth Doherty Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPM809A **Special Topics in Engineering; Applied Cryptography**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

0101	Jonathan Katz Tu 4:00pm - 6:40pm	Seats (Total: 30) JMP 2121
CY01	Jonathan Katz Class time/details on ELMs	Seats (Total: 6) ONLINE
HT01	Jonathan Katz Tu 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA
SG01	Jonathan Katz Tu 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA
SM01	Jonathan Katz Tu 4:00pm - 6:40pm	Seats (Total: 1) Location: TBA

ENPM809F **Special Topics in Engineering; Innovative Reactor Design**

Credits: 3 Grading Method: Regular, Audit

Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.

Formerly: ENPM808I.

NE01	Matthew Forsbacka Class time/details on ELMs	Seats (Total: 20) ONLINE

ENPP Engineering and Public Policy Fall 2017

ENPP611 **MEPP Scholarly Practicum**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must have Practicum Proposal approved by MEPP.

The scholarly practicum internship for MEPP students is intended to educate students in how engineering and public policy is practised in their MEPP specialization. The internship must last a minimum of 400 hours, and must be completed by the submission and approval of progress and completion reports. By undertaking the internship midway through the student's MEPP studies, the student can make use of MEPP studies completed, and use the experience in selection of subsequent MEPP course to maximize the educational opportunities of the MEPP program.

0101	William Powers	Seats (Total: 8)
	Contact instructor or department for details.	

ENRE Reliability Engineering Fall 2017

ENRE489 **Special Topics in Reliability Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

Contact department for information to register for this course.

ENRE600 **Fundamentals of Failure Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENMA698M, ENNU648M, or ENRE600.

Physical, chemical, and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real devices will also be presented. Problems related to manufacturing, and achieving quality and reliability will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory. The mathematical and statistical basis for analysis is presented as well as Failure Mode and Failure Anaylsis.

Those sections that begin with a letter are taught via ITV and are not i ntended for College Park campus students.

0101	Aristos Christou, Thomas Martin	Seats (Total: 20)
	M 1:00pm - 3:40pm	JMP 2217

ER01	Aristos Christou, Thomas Martin Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Aristos Christou, Thomas Martin Contact instructor or department for details.	Seats (Total: 5)
RE01	Aristos Christou, Thomas Martin Contact instructor or department for details.	Seats (Total: 4)
SM01	Aristos Christou, Thomas Martin Contact instructor or department for details.	Seats (Total: 5)

ENRE602 **Reliability Analysis**

Credits: 3 Grading Method: Regular, Audit

Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.

Those sections that begin with a letter are taught via ITV and are not i ntended for College Park campus students.

0101	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 17) JMP 2217
ER01	Katrina Groth Class time/details on ELMs	Seats (Total: 25) ONLINE
HT01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA
RE01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 10) Location: TBA
SG01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA
SM01	Katrina Groth W 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA

ENRE641 **Probabilistic Physics of Failure and Accelerated Testing**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENRE641 or ENRE650. Formerly: ENRE650.

Models for life testing at constant stress. Graphical and analytical methods. Test plans for accelerated testing. Competing failure modes and size effects. Models and data analyses for step and time varying stresses. Optimizing of test plans.

0101	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) JMP 2217
ER01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) ONLINE
HT01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 5) Location: TBA
RE01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 15) ONLINE
SG01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 5) Location: TBA
SM01	Mohammad Modarres Th 11:00am - 1:40pm	Seats (Total: 5) Location: TBA

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE648B **Special Problems in Reliability Engineering; Life Cycle Cost and System Sustainment Analysis**

Credits: 1-6 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

0101	Peter Sandborn Tu 1:00pm - 3:40pm	Seats (Total: 25) JMP 2222
ER01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE

ENRE648J **Special Problems in Reliability Engineering; Prognostics and Health Management**

Credits: 3 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

0101	Michael Pecht M 9:30am - 12:10pm	Seats (Total: 20) JMP 2216
ER01	Michael Pecht Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Michael Pecht Class time/details on ELMs	Seats (Total: 10) ONLINE

ENRE655 **Advanced Methods in Reliability Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

Contact department for information to register for this course.

ENRE670 **Probabilistic Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Also offered as: ENNU651. Credit only granted for: ENNU651 or ENRE670.

Why study risk, sources of risk, overview of Risk Assessment and Risk Management, relation to System Safety and Reliability Engineering; measures, representation, communication, and perception of risk; overview of use of risk assessment results in decision making; overview of Probabilistic Risk Assessment (PRA) process; detailed converge of PRA methods including (1) methods for risk scenario development such as identification of initiators, event sequence diagrams, event trees, causal modeling (fault trees, influence diagrams, and hybrid methods), and simulation approaches; (2) methods of risk scenario likelihood assessment, including quantitative and qualitative approaches, as well as uncertainty modeling and analysis. Also covers methods for risk modeling of system hardware behavior, physical phenomena, human behavior, software behavior, organizational environment, and external physical environment. Additional core topics include risk model integration and quantification (Boolean-based, binary decsion diagram, Bayesian belief networks, and hybrid methods), simulation-based Dynamic PRA methods (discrete and continuous) and several examples of large scale PRAs for space missions, nuclear power, aviation and medical systems.

0101	Mohammad Modarres Th 3:00pm - 5:40pm	Seats (Total: 17) JMP 2222
ER01	Mohammad Modarres Th 3:00pm - 5:40pm	Seats (Total: 10) ONLINE
RE01	Mohammad Modarres Th 3:00pm - 5:40pm	Seats (Total: 10) ONLINE

ENRE684 **Information Security**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENME442. Credit only granted for: ENME442, ENRE648J, or ENRE684. Formerly: ENRE648J.

This course is divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier TuTh 9:30am - 10:45am	Seats (Total: 5) JMP 2222
ER01	Michel Cukier Contact instructor or department for details.	Seats (Total: 10)

RE01	Michel Cukier	Seats (Total: 5)
	Contact instructor or department for details.	

ENRE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENSE Systems Engineering Fall 2017

ENSE621 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM641. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Tony Barber	Seats (Total: 17)
	M 7:00pm - 9:40pm	JMP 2216
0201	David Alldredge	Seats (Total: 24)
	M 7:00pm - 9:40pm	EGR 1102

DE01	Tony Barber Class time/details on ELMs	Seats (Total: 4) ONLINE
HT01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Tony Barber M 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA

ENSE623 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENSE622 and ENPM642; and permission of ENGR-Institute for Systems Research. Also offered as: ENPM643. Credit only granted for: ENPM643, ENSE610, or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
HT01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Matthew Forsbacka Tu 7:00pm - 9:40pm	Seats (Total: 3) Location: TBA

ENSE626 **System Life Cycle Analysis and Risk Management**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM646.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Also covered, are relevant analytic tools from probability and statistics and also important managerial and organizational concepts. Extensive use is made of case studies and examples from industry and government.

0101	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
DE01	Nidak Sumrean Class time/details on ELMs	Seats (Total: 4) ONLINE
HT01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SG01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA
SM01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 1) Location: TBA

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact department for information to register for this course.

ENSP Environmental Science and Policy Fall 2017

ENSP101 **Introduction to Environmental Science**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

One of two required courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on scientific ways of knowing; the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.

0101	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 25) ESJ 0202 MTH 0104	Discussion
0102	Annette Spivy TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 24) ESJ 0202 PLS 1146	Discussion
0103	Annette Spivy TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 24) ESJ 0202 SYM 0215	Discussion
0104	Annette Spivy TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 24) ESJ 0202 PLS 1119	Discussion
0105	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 25) ESJ 0202 EGR 1102	Discussion
0106	Annette Spivy TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 24) ESJ 0202 CHE 2145	Discussion
0107	Annette Spivy TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 24) ESJ 0202 EGR 2116	Discussion
FC01	Annette Spivy TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) EGR 2116	

ENSP330 **Introduction to Environmental Law**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of AGNR-Dean-Environmental Science & Policy Program. Recommended: ENSP101; and ENSP102. Restriction: Junior standing or higher. Credit only granted for: ENSP330 or ENSP399A. Formerly: ENSP399A.

An overview of environmental law, from its common law roots to its role in the modern regulatory state, including an examination of major federal environment statutes and the policy debates inherent in them. Other areas covered include civil and criminal enforcement, standing to sue, land use control, and regulatory takings.

0101	Joanna Goger TuTh 11:00am - 12:15pm	Seats (Total: 35) EGR 2154

ENSP340 **Water: Science, Ethics, and Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits; and permission of instructor. Credit only granted for: ENSP340 or ENSP399B. Formerly: ENSP399B.

Exploration of the science, policy, and ethical aspects of water resource protection and management. Focus on water pollution, water availability, ecosystems, and sustainability

0101	Joanna Goger TuTh 9:30am - 10:45am	Seats (Total: 25) SYM 0215

ENSP386 **Internship**

(Perm req)

Credits: 3-6

Grading Method: Regular

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP399 **Special Topics in Environmental Science and Policy**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

Contact department for information to register for this course.

ENSP399E **Special Topics in Environmental Science and Policy; The Role of Evidence-based Environmental Advocacy in Environmental Politics**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

In this course, students will explore the avenues of advocacy, and identify sound sources on which to base opinions and arguments in environmental policy. Through a discussion-based class, advocacy will be explored in the areas of deforestation, climate change, and water quality. Students will analyze cases in the environmental movements of effective and ineffective advocacy, hear from a number of guest speakers who are experts in the above topics, and hold discussions on current events related to these topics.

0101	Joanna Goger, Margaret Houlihan, Camilla Arias	Seats (Total: 15)
	Th 12:30pm - 1:20pm	PLS 1129

ENSP399R **Special Topics in Environmental Science and Policy; Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

1001	Jennifer Murrow	Seats (Total: 10)
	Contact instructor or department for details.	

ENSP400 **Capstone in Environmental Science and Policy**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: ENSP101; and ENSP102. Restriction: Senior standing; or permission of the Director of ENSP. And must be in Environmental Science and Policy program.

Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.

0101	Rachel Lamb	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	SPH 1302

ENSP499 **Honors Thesis Research**

Credits: 1-6 Grading Method: Regular

Individual research, thesis, and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

ENST Environmental Science and Technology Fall 2017

ENST100 **International Crop Production-Issues and Challenges in the 21st Century**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS

Credit only granted for: ENST100 or NRSC100. Formerly: NRSC100.

Examines the role of crop production in elevating humans out of poverty in developing countries. It will introduce students to the basic principles of plant and soil science underlying the international production of food crops and world food security. The role of multinational agencies such as the World Bank in the promotion of sustainable crop production using environmentally-sound technologies will also be discussed.

0101	Jose-Luis Izursa, Prabahkar Tamboli TuTh 12:30pm - 1:45pm	Seats (Total: 38) ANS 0422	

ENST200 **Fundamentals of Soil Science**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Corequisite: CHEM131 and CHEM132; or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST200 or NRSC200. Formerly: NRSC200.

Study and management of soils as natural bodies, media for plant growth and ecosystem components. Morphology, composition, formation, and conservation of soils. Chemical, biological, and physical properties are discussed in relation to the production of plants, the functioning of hydrologic and nutrient cycles, the protection of environmental quality, and engineering uses of soils.

0101	Raymond Weil TuTh 3:30pm - 4:45pm Tu 5:00pm - 7:50pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab
0102	Raymond Weil TuTh 3:30pm - 4:45pm W 5:00pm - 7:50pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab

0103	Raymond Weil TuTh 3:30pm - 4:45pm Th 5:00pm - 7:50pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab
0104	Raymond Weil TuTh 3:30pm - 4:45pm Tu 9:30am - 12:20pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab
0105	Raymond Weil TuTh 3:30pm - 4:45pm W 9:00am - 11:50am	Seats (Total: 25) HJP 0226 HJP 0210	 Lab
0106	Raymond Weil TuTh 3:30pm - 4:45pm Th 9:30am - 12:20pm	Seats (Total: 25) HJP 0226 HJP 0210	 Lab

ENST233 **Introduction to Environmental Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Examines how humans are affected by the quality of our air, water, soil and food supply as well as how human activities alter these survival necessities. Students will learn how the evolution and prosperity of human populations have resulted in degradation of our environment and the impact of environmental degradation on the health of people. The implications of individual and collective choices for sustainable food production, population management, and resource utilization will be explored.

0101	Lance Yonkos TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion
0102	Lance Yonkos TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion

ENST281 **Computer Aided Design in Ecology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Environmental Sci & Tech program.

Basics of Computer Aided Drawing (CAD) applied to design of constructed ecosystems. Use of campus stormwater wetland as case study.

0101	Jose-Luis Izursa, David Tilley M 2:00pm - 2:50pm M 5:00pm - 8:00pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab
0102	Jose-Luis Izursa, David Tilley M 2:00pm - 2:50pm Tu 5:00pm - 8:00pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab

ENST301 **Field Soil Morphology I**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is a field-oriented course that introduces students to the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Brian Needelman Contact instructor or department for details.	Seats (Total: 7)

ENST302 **Field Soil Morphology II**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST301. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the second field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Brian Needelman Contact instructor or department for details.	Seats (Total: 7)

ENST303 **Field Soil Morphology III**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST302. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the third field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Brian Needelman	Seats (Total: 15)
	Contact instructor or department for details.	

ENST333 **Ecosystem Health and Protection**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST233. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech). Credit only granted for: ENST499A or ENST333. Formerly: ENST499A.

Discussion of the philosophies, principles, and practices for assessing ecosystem health with emphasis on an ecosystem perspective rather than a human health perspective. Degradation associated with human activities will be emphasized. Topics will range from local to regional to global issues, including a discussion on global warming and its possible impacts on ecosystems. Concepts will be clarified using case histories from the Chesapeake Bay watershed.

0101	Daniel Fisher	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	HBK 0109

ENST360 **Ecosystem Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech).

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

0101	Mitchell Pavao-Zuckerman MWF 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 35) KEB 1200 HJP 2242	 Discussion
0102	Mitchell Pavao-Zuckerman MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 35) KEB 1200 EGR 1104	 Discussion

ENST373 **Natural History of the Chesapeake Bay**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: BSCI373. Credit only granted for: BSCI373, ENST373, or ENST499G. Formerly: ENST499G.

Consideration of the major groups of organisms associated with the Chesapeake Bay and current issues that determine humans' present and future uses for the Chesapeake and its biota.

0101	Patrick Kangas MWF 3:00pm - 3:50pm	Seats (Total: 80) ANS 0408	

ENST388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

2201	Martin Rabenhorst Contact instructor or department for details.	Seats (Total: 1)
2905	Stephanie Yarwood Contact instructor or department for details.	Seats (Total: 1)

ENST389 **Internship**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students place in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

0101	Patrick Kangas Contact instructor or department for details.	Seats (Total: 50)

ENST404 **Ecological and Natural Resources Ethics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST214 and ENST360. Recommended: ENST314, ENST410, and ENST460. Restriction: Senior standing or higher. Also offered as: ENST604. Credit only granted for: ENST604 or ENST404.

Bridges science and management with ethical theory and concepts to help scientists, regulators, and managers understand how to deal with potential ethical dilemmas that arise in natural resource and environmental management implementation and policy development.

0101	Reginal Harrell TuTh 11:00am - 12:15pm	Seats (Total: 30) ANS 0422

ENST410 **Ecosystem Services: An Integrated Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST360 or BSCI361; or permission of instructor. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Environmental Health).

The importance of our ecosystems and the services they provide will be discussed. Basic principles used to analyze ecosystem services will be discussed and applied using case studies & field exercises. Forestland, wetlands and our marine resources are increasingly recognized for their ecosystem services provided to society, to include clean air and water, wildlife habitat, biodiversity, carbon storage and pollination services. This course will prepare students to deal with the complex issues involved in understanding those and other ecosystem services and their importance to society and environmental sustainability. Slowly, new markets are emerging for these services. Students will analyze the ecological, policy and financial dimensions of enhancing, restoring, and sustaining ecosystem services. New and on-going government programs and private business ventures will be discussed.

0101	Christine Conn, Elliott Campbell	Seats (Total: 70)
	TuTh 5:00pm - 6:15pm	EGR 0108

ENST411 **Principles of Soil Fertility**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST611. Credit only granted for: ENST411 or NRSC411. Formerly: NRSC411.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	ANS 1420

ENST414 **Soil Morphology, Genesis and Classification**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200. Credit only granted for: ENST414 or NRSC414. Formerly: NRSC414.

Processes and factors of soil genesis. Taxonomy of soils of the world by U.S. System. Soil morphological characteristics, composition, classification, survey and field trips to examine and describe soils.

0101	Brian Needelman	Seats (Total: 20)	
	MWF 10:00am - 10:50am	ATL 2416	
	M 2:00pm - 5:00pm	HJP 0210	Lab

ENST415 **Renewable Energy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, PHYS121, and MATH113; or permission of AGNR-Environmental Science & Technology department. Restriction: Must be in a major within AGNR-Environmental Science & Technology department.

An overview of renewable energy technologies and their current applications. Emphasis will be placed on technological readiness, efficiency and sustainability of renewable energy alternatives. Technologies include solar thermal, photovoltaics, biodiesel, ethanol, anaerobic digestion, wind, hydroelectric, and microbial fuel cells.

0101	Stephanie Lansing	Seats (Total: 40)
	MWF 11:00am - 11:50am	ANS 0422

ENST417 **Soil Hydrology and Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; and (MATH113 or MATH115). Or permission of instructor. Credit only granted for: ENST417 or NRSC417. Formerly: NRSC417.

A study of soil water interactions: the hydrologic cycle; the unique properties of water and soil; the soil components and their interactions; the field water cycle; transport processes involving water, heat and solutes; human effects on soil and groundwater; as well as the measurement, prediction, and control of the physical processes taking place in and through the soil.

0101	Robert Hill	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	JMP 1202

ENST422 **Soil Microbial Ecology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed a course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST622. Credit only granted for: ENST422 or NRSC422. Formerly: NRSC422.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.

0101	Stephanie Yarwood	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	SPH 0305

ENST434 **Toxic Contaminants: Sources, Fate, and Effects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST333 and ENST334.

Study of the release to the environment, transport through natural compartments, persistence and ultimate fate of various classes of contaminants produced as a result of human activities. Topics will culminate in discussions of impacts to wildlife and human health. Students should emerge with a practical appreciation of the actual risks from exposure to a variety of environmental contaminants and an understanding of the environmental and human health implications of continuing the contaminating activities.

0101	Lance Yonkos	Seats (Total: 25)
	M 4:00pm - 6:45pm	ANS 0422

ENST450 **Wetland Ecology**

Credits: 3 Grading Method: Regular

Prerequisite: BIOM301; or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST650. Credit only granted for: ENST450, NRMT450, or MEES650. Formerly: NRMT450.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetlands. Lectures are supplemented by weekend or Friday field trips (1-3 days total during the semester) and in-class labs that emphasize collection and analysis of field data on wetland vegetation, soil, and hydrology. Wading boots (at least hip length) are strongly recommended.

0101	Christine Maietta	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	ANS 0412

ENST460 **Principles of Wildlife Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed two semesters of biology laboratory; and (ENST360; or BSCI361). Or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST460 or NRMT460. Formerly: NRMT460.

Ecological principles and requirements of wildlife as basis for management, and introduction to the scientific literature. Conflicts in wildlife management, government administration of wildlife resources, legislation, and history of the wildlife management profession.

0101	Jennifer Murrow, Annette Spivy	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	ANS 0412

ENST461 **Urban Wildlife Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENST461 or NRMT461. Formerly: NRMT461.

Ecology and management of wildlife in urban areas. For students in biological sciences, geography, landscape design, natural resources management, recreation and urban studies. Planning, design, and wildlife conservation in landscape ecology. Public attitudes, preferences, and values, review of private conservation organizations.

One Saturday field trip is scheduled.

0101	Shannon Pederson	Seats (Total: 40)
	TuTh 9:30am - 10:45am	ANS 0412

ENST471 **Capstone I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course will be conducted in a group discussion format that will focus on professional project proposal preparation and presentation, critical evaluation of environmental science research, professional development, and career planning. Students will develop and present original project proposals and critique project proposals presented by others.

0101	Michael Kearney	Seats (Total: 90)
	W 1:00pm - 3:00pm	ATL 2400

ENST487 **Environmental Conflicts and Decision Making**

Credits: 2 Grading Method: Regular

Restriction: Senior standing. And must be in one of the following programs (Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci&Pol-Wildlife Ecology & Mgmt) ; or permission of AGNR-Environmental Science & Technology department.

Study major cases which focus on environmental science with concentration on the role and techniques of negotiation, collaborative decision making, and adaptive resource management as an environmental conflict resolution process.

0101	Jennifer Murrow	Seats (Total: 20)
	M 1:00pm - 2:50pm	BPS 1232

ENST489 **Field Experience**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

An advanced research-based course in the field of environmental science and technology.

Contact department for information to register for this course.

ENST489Z **Field Experience; Water Management in Urban Environment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced research-based course in the field of environmental science and technology.

Relevant processes in pathways and fluxes of water in urban areas. Urban water balance and consequences of urbanization on surface and groundwater regimes. Effects of climate and hydrology. Quantity and quality of urban runoff, sources of pollution and behavior of contaminants. Ecological quality and processes associated with urban water. Design and planning for water quality and quantity management in urban water systems. Exploring engineered, and ecologically engineered alternatives for stormwater management.

0101	Masoud Negahban-Azar	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	ANS 0422

ENST499 **Special Topics in Environmental Science and Technology**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST499K **Special Topics in Environmental Science and Technology; Ecological Entrepreneurship**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Ecological Entrepreneurship adapts the Lean Startup process to take green innovation to the commercial application. It relies on customer discovery, empathy, storytelling, and the business model canvas.

0101	David Tilley	Seats (Total: 20)
	MWF 10:00am - 10:50am	ANS 0422

ENST499L **Special Topics in Environmental Science and Technology; Ground Water Use in the Developing World**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Overview of ground water as a water resource, its availability, quality and extraction in various developing countries. The role of a consultant in adapting modern technologies to developing ground water as a viable water resource.

0101	Yaron Sternberg	Seats (Total: 40)
	M 12:00pm - 12:50pm	ANS 0422

ENST499R **Special Topics in Environmental Science and Technology; Carbon Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Peter May	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ANS 0538

ENST499V **Special Topics in Environmental Science and Technology; Nanotechnology in Energy and Environment: Applications and Implications**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Amro Hassanein TuTh 11:00am - 12:15pm	Seats (Total: 15) ANS 1422

ENST499X **Special Topics in Environmental Science and Technology; Soil Science**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to regsiter for this course.

0101	Raymond Weil Contact instructor or department for details.	Seats (Total: 5)

ENST499Y **Special Topics in Environmental Science and Technology; College Teaching**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Raymond Weil Contact instructor or department for details.	Seats (Total: 2)
1508	Reginal Harrell Contact instructor or department for details.	Seats (Total: 2)
2104	Shannon Pederson Contact instructor or department for details.	Seats (Total: 2)
2801	Jose-Luis Izursa Contact instructor or department for details.	Seats (Total: 2)

ENST602 **Research Principles and Methodology in Environmental Scienceand Technolgy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Environmental Sci & Tech program.

Fundamental research strategies and methods of investigation in Environmental Science and Technology including field and laboratory procedures.

0101	William Bowerman, Bahram Momen	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	ANS 1420

ENST604 **Advanced Ecological and Natural Resource Ethics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST214 and ENST360. Recommended: ENST314, ENST410, and ENST460. Credit only granted for: ENST404 or ENST604.

Bridges science and management with ethical theory and concepts to help scientists, regulators, and managers understand how to deal with potential ethical dilemmas that arise in natural resource and environmental management implementation and policy development.

0101	Reginal Harrell	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ANS 0422

ENST608 **Research Methods**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST611 **Advanced Principles of Soil Fertility**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST411. Credit only granted for: ENST411, NRSC411, or ENST611.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil TuTh 12:30pm - 1:45pm	Seats (Total: 10) ANS 1420

ENST622 **Advanced Soil Microbial Ecology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed one course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST422. Credit only granted for: ENST422 or ENST622.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.The course will include an examination of current literature in this field.

0101	Stephanie Yarwood TuTh 2:00pm - 3:15pm Contact instructor or department for details.	Seats (Total: 9) SPH 0305

ENST650 **Advanced Wetland Ecology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOM301; or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST450, MEES650. Credit only granted for: ENST450, ENST650, or MEES650. Additional information: Wading boots (at least hip length) are strongly recommended.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetland systems. In-class laboratory will emphasize collection and analysis of field data on wetland vegetation, soil, and hydrology.

Course requires two Saturday field trips.

0101	Christine Maietta TuTh 2:00pm - 3:15pm	Seats (Total: 5) ANS 0412

ENST689 **Special Topics**

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

2005	Jennifer Murrow Contact instructor or department for details.	Seats (Total: 5)
2103	Mitchell Pavao-Zuckerman Contact instructor or department for details.	Seats (Total: 5)
2201	Martin Rabenhorst Contact instructor or department for details.	Seats (Total: 3)
3001	Lance Yonkos Contact instructor or department for details.	Seats (Total: 2)

ENST689I **Special Topics; Molecular Techniques in Ecotoxicology**

Credits: 2 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Lance Yonkos Contact instructor or department for details.	Seats (Total: 1)

ENST689O **Special Topics; Advances in Research, Invasive Plants**

Credits: 1 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Wendy Peer M 4:00pm - 4:50pm	Seats (Total: 20) ANS 1420

ENST689R **Special Topics; Invasive Ecology**

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Prerequisite: One semester of biology or permission of department. Students will examine ecological, evolutionary, and anthropogenic processes facilitating or resisting biological invasions, and consider their environmental, economic, and human health impacts. We will consider various management strategies to mitigate invasions and identify areas of future research. Detailed discussion of recent findings and controversies in the literature will help illustrate fundamental concepts of invasions among various ecosystems

0101	Paul Leisnham	Seats (Total: 10)
	Tu 1:00pm - 2:15pm	ANS 1422
	Th 1:00pm - 3:00pm	ANS 1422

ENST689V **Special Topics; Advanced Nanotechnology in Energy and Environment: Applications and Implications**

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Amro Hassanein	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	ANS 1422

ENST689X **Special Topics; Methods in University Teaching**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Raymond Weil	Seats (Total: 1)
	Contact instructor or department for details.	

ENST689Y **Special Topics; Advances in Research, Plant Membrane Biology**

Credits: 2 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Wendy Peer, Angus Murphy	Seats (Total: 10)
	Contact instructor or department for details.	

ENST789 **Advances in Research**

Credits: 1-4 Grading Method: Regular, Audit

A study of recent advances in agronomy research.

Contact department for information to register for this course.

ENST798 **Graduate Seminar**

Credits: 1 Grading Method: Regular, Audit

Designed to provide a venue for interactive discussion between ENST graduate students and other members of the ENST community regarding thesis/dissertation research planned or conducted as part of the students graduate program.

0101	Stephanie Yarwood, Martin Rabenhorst	Seats (Total: 30)
	W 4:00pm - 4:50pm	ANS 0408

ENST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Fall 2017

ENTM699K **Advanced Entomology; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Also offered as BIOL608K, CBMG699K, and CHEM608K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 12)
	W 12:00pm - 1:40pm	BPS 1208

ENTM699M **Advanced Entomology; Tools & Techniques in Genomics Research for the Applied Biologist**

Credits: 1 Grading Method: Regular

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

0101	Megan Fritz	Seats (Total: 7)
	Contact instructor or department for details.	

ENTM699W **Advanced Entomology; Insect Physiology and Molecular Biology**

Credits: 3 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

0101	Jian Wang	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM701 **Effective Teaching: TA Training**

(Perm req)

Credits: 1 Grading Method: Regular

Also offered as: BISI701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701.

A survey and discussion of topics pertinent to graduate students who ar first-time teaching assistants, including teaching responsibilities and policies, effective techniques of lecturing and leading discussions, composing and grading quizzes and exams, cultural diversity, time management, and development of a teaching portfolio. All teaching assistants in the College of Life Sciences must take a 701 TA training course in one of the departments.

0101	Bretton Kent	Seats (Total: 20)
	Tu 6:00pm - 8:00pm	BPS 1208

ENTM710 **Insect Biodiversity, Physiology and Ecology**

Credits: 3 Grading Method: Regular

A survey course discussing the various families of insects, discuss thing their anatomy and physiology, and their role in ecological systems. Students will examine the ecological and evolutionary perspectives on interactions between plants and vertebrate and invertebrate animals. Further, it explores the applied consequences of animal-plant interactions to agroecology and conservation biology. These goals are achieved by reviewing the theoretical underpinnings of animal-plant interactions, and exposing students to research literature on animal-plant interactions.

PLE1	Marcia Shofner	Seats (Total: 8)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the Professional Entomology Program.	

ENTM745 Bee Biology and Beekeeping

Credits: 3 Grading Method: Regular

Students will be introduced to the anatomy and physiology of the honey bee colony with emphasis on how to use this information to best manage honey bee colonies.

PLE1	Kelly Kulhanek, Anthony Nearman, Dennis vanEngelsdorp	Seats (Total: 8)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in the Professional Entomology Program.	

ENTM756 Insect Diseases and Pathology

Credits: 3 Grading Method: Regular

Credit only granted for: ENTM715 or ENTM756. Formerly: ENTM715.

Integrates aspects of biochemistry, molecular biology and evolution theory with ecology using pathogens of insects as a model. The various biotic (living) and abiotic (nonliving) factors that can contribute to plant problems. Explores the direction and goals of innovation in microbial biocontrol as well as the effect of social criticism and considerations of environmental impact on attempts to introduce engineered microorganisms.

PLE1	Raymond StLeger	Seats (Total: 8)	
	Meets August 28, 2017 - November 17, 2017		
	Class time/details on ELMs	ONLINE	
	Restricted to students in the Professional Entomology Program.		

ENTM769 **Capstone: Scholarly Paper**

Credits: 3 Grading Method: Regular

An examination of the current literature on topics related to the field of applied entomology. The Capstone Course provides the opportunity to apply and integrate best practices based on current research in the form of a formal scholarly paper.

PLE1	Tammatha O'Brien	Seats (Total: 8)	
	Meets August 28, 2017 - November 17, 2017		
	Class time/details on ELMs	ONLINE	
	Restricted to students in the Professional Entomology Program.		

ENTM788C **Entomological Topics; Colloquium**

Credits: 1-3 Grading Method: Regular, Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

0101	Alan Leslie	Seats (Total: 45)	
	F 12:00pm - 12:50pm	PLS 1130	
	F 1:00pm - 1:50pm	PLS 1130	Discussion

ENTM788R **Entomological Topics; Insect Pathology**

Credits: 2 Grading Method: Regular, Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

0101	Raymond StLeger	Seats (Total: 20)
	Contact instructor or department for details. Class time/details on ELMs	ONLINE

ENTM798J **Topic Seminar; Taxonomy of Non-insect Terrestrial Arthropods**

Credits: 1 Grading Method: Regular, Audit

Discussion and presentation of current research and literature.

0101	Jeffrey Shultz	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENTM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENTS Telecommunications Fall 2017

ENTS622 **Introduction to Digital Communication Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program; or permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENTS622 or ENTS689B. Formerly: ENTS689B.

Principles of analog and digital communication systems design. Analysis of the performance and relative merits of different modulation and demodulation, signal processing, filtering and error control schemes in communication systems. Also provides an understanding of the design of modern digital communication systems.

0101	Alejandra Mercado M 5:30pm - 8:15pm Th 5:30pm - 7:00pm	Seats (Total: 20) ATL 2428 AVW 1458	 Lab
0102	Alejandra Mercado M 5:30pm - 8:15pm W 9:00am - 10:30am	Seats (Total: 20) ATL 2428 AVW 1458	 Lab
0201	Alejandra Mercado M 9:00am - 11:45am Th 9:00am - 10:30am	Seats (Total: 20) PHY 4221 AVW 1458	 Lab
0202	Alejandra Mercado M 9:00am - 11:45am W 10:45am - 12:15pm	Seats (Total: 20) PHY 4221 AVW 1458	 Lab

ENTS625 **Management and Organizational Behavior in the Telecommunications Industry**

Credits: 3 Grading Method: Regular, Audit

Roles of the general manager in: determining target markets and designing strategies for them; formulating and implementing corporate and business level strategies; and staffing, developing, and managing human resources and coordinating them with the organization's financial and physical resources. Also emphasizes the building of interpersonal skills with respect to the selection of members for work teams and team formation, leadership of teams toward the achievement of strategic goals and total quality, the development and motivation of team members, and the evaluation of team and individual performance.

Restricted to ENTS majors. All non-major students will need to obtain department permission.

0101	Aswani Valiveti Th 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105	
0201	Aswani Valiveti Th 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105	

ENTS629A **Special Topics in Cybersecurity; System Security**

Credits: 3

Grading Method: Regular, Audit

Selected topics of current importance in cybersecurity.

0101	Fazlul Kabir W 5:30pm - 8:15pm	Seats (Total: 30) EGR 0135

ENTS630 **The Economics of International Telecommunications**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Basic microeconomic principles used by telecommunications firms, including supply and demand, elasticity, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Restricted to ENTS majors. All non-major students will need to obtain department permission.

0101	Jahangir Boroumand W 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105
0201	Jahangir Boroumand W 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105

ENTS632 **Telecommunications Marketing Management**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Topics covered include strategic marketing, sales and customer service challenges confronting organizations in the computer, communications and media industries. The course also addresses volatile technology, regulatory and competitive environments as a backdrop to strategic planning and management in the marketing domain.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Janet Wagner Tu 5:30pm - 8:15pm	Seats (Total: 40) SQH 1119

0201	Janet Wagner Tu 2:00pm - 4:45pm	Seats (Total: 40) SQH 1119	

ENTS635 **Decision Support Methods for Telecommunication Managers**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

The aim of this course is to introduce management science techniques for informed decision making. Topics covered can include data analysis and regression, optimization models and applications (workforce scheduling, manufacturing, network design, facility location), sensitivity analysis, decision trees, risk analysis and business simulation models. Emphasis will be on telecommunications managerial problems, model development and the use of software packages for decision support.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Kazim Ruhi M 5:30pm - 8:15pm	Seats (Total: 40) SQH 1105	
0201	Kazim Ruhi M 2:00pm - 4:45pm	Seats (Total: 40) SQH 1105	

ENTS640 **Networks and Protocols I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

An overview of design issues and the important industry standards for digital communications networks. This includes protocols, data communications technologies, error correction and detection, congestion control, traffic routing, Local Area Network (LAN) protocols, TCP/IP, and some security issues.

0101	Zoltan Safar Th 5:30pm - 8:15pm Tu 5:30pm - 8:15pm	Seats (Total: 20) ITV 1100 AVW 1458	 Lab
0102	Zoltan Safar Th 5:30pm - 8:15pm W 5:30pm - 8:15pm	Seats (Total: 20) ITV 1100 AVW 1458	 Lab

0201	Zoltan Safar Th 2:00pm - 4:45pm Tu 2:00pm - 4:45pm	Seats (Total: 20) ITV 1100 AVW 1458	 Lab
0202	Zoltan Safar Th 2:00pm - 4:45pm W 2:00pm - 4:45pm	Seats (Total: 20) ITV 1100 AVW 1458	 Lab

ENTS641 **Networks and Protocols II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENTS640. Restriction: Must be in Telecommunications (Master's) program.

Techniques for the specification, design, analysis, verification and testing of communication protocols are discussed. The course includes detailed discussion on routing protocols in the Internet. This includes Routing Information Protocol (RIP), Enchanced Interior Gateway Routing Protocol (EIGRP). Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP4).

0101	Mehdi Kalantari Khandani Th 5:30pm - 8:15pm	Seats (Total: 40) EGR 3106

ENTS649B **Special Topics in Networking; Cloud Computing**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in networking.

0101	Reza Eftekari F 9:00am - 11:45am	Seats (Total: 30) JMP 1109

ENTS653 **AWS/PCS System Implementation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Engineering issues associated with designing and deploying a AWS/PCS cellular wireless communications system in the current world environment will be examined. The course will focus on implementation issues such as the impact of real world concerns on the deployment strategy and the use of good engineering practice to overcome obstacles. Students will create and modify mock deployments using professional tools for cell planning and interference analysis. Students will also be exposed to drive testing tools and concepts for migration to future technologies.

0101	Michael Dellomo Tu 5:30pm - 8:15pm	Seats (Total: 40) EGR 0135

ENTS657 **Satellite Communication Systems**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENTS657 or ENTS689S. Formerly: ENTS689S.

An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.

An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.

0101	Michael Dellomo W 5:30pm - 8:15pm	Seats (Total: 30) EGR 1104

ENTS669B **Special Topics in Computing; Distributed Systems in a Virtual Environment**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in computing.

0101	Jeffrey McKinney M 5:30pm - 8:15pm	Seats (Total: 18) AVW 1324

ENTS669E **Special Topics in Computing; Statistical Pattern Recognition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in computing.

Restriction: Permission of the instructor. The goal is to introduce mathematical pattern analysis and recognition. Emphasis is given to parametric and non-parametric statistical pattern recognition methods and clustering with applications to speech, image and video recognition.

0101	Ramalingam Chellappa	Seats (Total: 75)
	MW 11:00am - 12:15pm	ATL 1113

ENTS673 **Project Management for Telecommunications**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENTS689P.

Introduces modiern project management. Begins with an overview and expands into Adaptive and Extreme project management. The focus then shifts to the individual skills required to be an effective project manager, such as time management, leadership and motivation. Once skills of the individual have been addressed, social networks and how they impact project management are examined.

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

0101	Barnet Corwin	Seats (Total: 30)
	Tu 5:30pm - 8:15pm	SQH 2120

ENTS689A **Special Topics in Telecommunications; Algorithms and Data Structures**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Gang Qu	Seats (Total: 30)
	W 2:00pm - 4:45pm	EGR 1104

ENTS689F **Special Topics in Telecommunications; Fundamentals of Wireless LANs**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Rikin Thakker	Seats (Total: 30)
	F 5:30pm - 8:15pm	EGR 2154

ENTS689K **Special Topics in Telecommunications; Telecommunications Entrepreneurial Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

Department permission required.

0101	Michael Dellomo	Seats (Total: 3)
	Contact instructor or department for details.	

ENTS689N **Special Topics in Telecommunications; Network Programming**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Masoud Hamedi	Seats (Total: 30)
	M 5:30pm - 8:15pm	EGR 2116

ENTS699 **Independent Study in Telecommunications**

(Perm req)

Credits: 1 Grading Method: Regular

Individual instruction course. See ENTS program office for section number.

Contact department for information to register for this course.

ENTS699B **Independent Study in Telecommunications; Embedded Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

By Permission of ENTS Program Only.

0101	Shuvra Bhattacharyya	Seats (Total: 5)
	Contact instructor or department for details.	

ENTS699C **Independent Study in Telecommunications; Independent Study in Advanced Embedded Signal Processing**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

Prerequisites: ENTS 699B, and By Permission of ENTS Program only. In this course, students work on an Embedded Signal Processing research project under the supervision of the instructor. Typically the project is a continuation of one that was undertaken previously in ENTS 699B.

0101	Shuvra Bhattacharyya	Seats (Total: 5)
	Contact instructor or department for details.	

ENTS699K **Independent Study in Telecommunications; Advanced Studies on Modern Wireless Networks and Technologies**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. See ENTS program office for section number.

0101	Kamran Etemad	Seats (Total: 30)
	M 1:00pm - 3:45pm	ATL 1114

ENTS749B **Advanced Topics in Networking; Software-Defined Networking**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

Please click here for further course information.

0101	Majid Raissi-Dehkordi	Seats (Total: 24)
	M 5:30pm - 8:15pm	AVW 1458

ENTS749D **Advanced Topics in Networking; Network Design and Configuration Lab**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

0101	Zoltan Safar	Seats (Total: 18)
	F 2:00pm - 4:45pm	AVW 1324

ENTS759D **Advanced Topics in Communications; Distributed Antenna Systems (DAS) and Small Cells**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in communications.

Prerequisites: ENTS656 or ENTS653.

0101	Rikin Thakker F 2:00pm - 4:45pm	Seats (Total: 30) CHE 2118	

EPIB Epidemiology and Biostatistics Fall 2017

EPIB300 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: FSAR

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Also offered as: HLTH300. Credit only granted for: EPIB300, EPIB315 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Jing Zhang TuTh 9:30am - 10:20am Th 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 PLS 1158	 Discussion
0102	Jing Zhang TuTh 9:30am - 10:20am Th 12:30pm - 1:20pm	Seats (Total: 20) ESJ 2208 SPH 0302	 Discussion
0103	Jing Zhang TuTh 9:30am - 10:20am Th 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 MTH B0427	 Discussion
0104	Jing Zhang TuTh 9:30am - 10:20am Th 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 PLS 1158	 Discussion
0105	Jing Zhang TuTh 9:30am - 10:20am M 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 CHE 2116	 Discussion

0106	Jing Zhang TuTh 9:30am - 10:20am M 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 SPH 0305	Discussion

EPIB301 **Epidemiology for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits. Also offered as: HLTH301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Natalie Slopen TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 SPH 0301	Discussion
0102	Natalie Slopen TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0103	Natalie Slopen TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0104	Natalie Slopen TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 SPH 0307	Discussion
0105	Natalie Slopen TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2208 SPH 0303	Discussion
0106	Natalie Slopen TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 SPH 0303	Discussion
SG91	Bonnie Richter W 5:15pm - 8:00pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 35) BLD2 3022	

EPIB330 **The Coming Plague: Public Health Perspectives**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI202.

Disease control and prevention is fundamental to the health of local, national, and global populations. Infectious agents are constantly adapting and breaching our defenses. Factors related to society, the environment, and our increasing global interconnectedness increase the likelihood of disease emergence and spread. Vaccines and antibiotics, demographic changes and urbanization, climate change and natural disasters, international travel and commerce, poverty and war create conditions for infectious diseases to spread. So how do we design and execute solutions to public health threats? How do research, policies, interventions, and budgets affect public health systems?

0101	Olivia Carter-Pokras TuTh 9:30am - 10:45am *Restricted to PHSC students at the College Park campus.*	Seats (Total: 30) JMZ 0205
SG91	Sara Bazaco Th 5:15pm - 7:45pm	Seats (Total: 30) BLD3 4212

EPIB399 **Epidemiology and Biostatistics Independent Study**

Credits: 1-3 Grading Method: Regular

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

Contact department for information to register for this course.

EPIB610 **Foundations of Epidemiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB300 placement exam. Credit only granted for: EPIB610 or HLTH720. Formerly: HLTH720.

Introduction to the discipline of epidemiology and its applications to health issues and practices. Basic epidemiologic concepts and methods will be covered.

0101	Olivia Carter-Pokras Th 4:00pm - 6:45pm	Seats (Total: 30) SPH 0302

0102	Typhanye Dyer Th 4:00pm - 6:45pm	Seats (Total: 30) SPH 1302

EPIB612 **Epidemiologic Study Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB611.

Application of epidemiologic study designs, analytic methods used for analysis of cohort, case-control, cross-sectional, and clinical trials research.

Prequisties: EPIB650, EOIB610, and EPIB611.

0101	Hongjie Liu M 4:00pm - 6:45pm	Seats (Total: 20) SPH 0307

EPIB622 **Social Determinants of Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of the major social variables that affect public health, including socioeconomic status, poverty, income distribution, race, social networks/support, community cohesion, psychological stress, gender, and work and neighborhood environment.

0101	Sunmin Lee Th 4:00pm - 6:45pm	Seats (Total: 20) SPH 0308

EPIB626 **Epidemiology of Obesity**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Overview of the epidemiological, prevention, and treatment of obesity, its causes and consequences, and energy balance issues; application of epidemiologic methods to the study of obesity epidemiology.

0101	Cher Dallal Th 1:00pm - 3:45pm	Seats (Total: 20) SPH 0301

EPIB630 **Epidemiologic Methods in Sexual and Reproductive Health Research**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPHL602; or EPIB610.

Examination of epidemiologic methods (quantitative and qualitative) for collecting and analyzing data on sexual and reproductive health. The emphasis will be to introduce students to the appropriate methods used for challenging and sensitive research topics such as sexual behavior, HIV/STI, drug use, sexual abuse.

0101	Typhanye Dyer Tu 11:00am - 1:45pm	Seats (Total: 20) SPH 0302

EPIB650 **Biostatistics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB placement exam. Credit only granted for: EPIB650, HLTH651, or HLTH688B. Formerly: HLTH651 and HLTH688B.

Basic statistical concepts and procedures for Public Health. Focuses on applications, hands-on-experience, and interpretations of statistical findings.

0101	Xin He Tu 4:00pm - 6:45pm	Seats (Total: 30) SPH 0302
0102	Mei-Ling Lee Tu 4:00pm - 6:45pm	Seats (Total: 30) SPH 0308

EPIB651 **Biostatistics II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of B- from (SPHL602, EPIB650); or a minimum score of 70% on the SPHL602 or EPIB650 waiver exam. Recommended: EPIB697 or previous experience working with SAS is highly recommended.

Introduction to a variety of statistical tools with applictions in public health, including one- and two-sample inference, nonparametric methods, categorical data, ANOVA, simple and mutiple regression.

0101	Raul Cruz-Cano Th 1:00pm - 3:45pm	Seats (Total: 25) ATL 2316

EPIB652 **Categorical Data Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651. Recommended: EPIB697 or previous experience working with SAS is highly recommended.

Methods for analysis of categorical data as applied to public health research, including contingency tables, logistic regression, multicategory logic models, loglinear models, and models for matched-pairs.

0101	Jing Zhang	Seats (Total: 20)
	W 4:00pm - 6:45pm	SPH 0301

EPIB655 **Longitudinal Data Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB651.

Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.

0101	Xin He	Seats (Total: 12)
	Tu 1:00pm - 3:45pm	SPH 0301

EPIB697 **Public Health Data Management**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

0101	Raul Cruz-Cano	Seats (Total: 12)
	W 4:00pm - 6:45pm	SPH 2234CC

EPIB785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB788 **Critical Readings in Epidemiology and Biostatistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Open to master and doctoral students to discuss critical readings in Epidemiology and Biostatistics.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FGSM Federal and Global Semester Fall 2017

FGSM320 **Public Health Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348P or FGSM320. Formerly: UNIV348P.

An exploration of the major questions and issues facing the U.S. health care system as well as the formulation and implementation of health policy.

Also offered as HONR378E. Credit granted for FGSM320 or HONR378E.

0101	Elaine Anderson, Samuel Kessel	Seats (Total: 23)
	Tu 3:30pm - 6:30pm	SPH 1302

FGSM330 **Homeland and National Security Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348T or FGSM330. Formerly: UNIV348T.

An examination of the concept of U.S. homeland and national security, threats, and major vulnerabilities in the context of recent history.

Also offered as HONR378G. Credit granted for FGSM330 or HONR378G.

0101	Magdalena Bajll	Seats (Total: 23)
	M 6:30pm - 9:30pm	PLS 1117

FGSM340 **Energy and Environmental Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Federal Fellows Program; and permission of instructor. Credit only granted for: UNIV348E or FGSM340. Formerly: UNIV348E.

An examination of issues of energy and environmental sustainability through an investigation of policy-making in energy, climate change, and sustainable development.

Also offered as HONR378J. Credit granted for FGSM340 or HONR378J.

0101	Ed Fendley, Thomas Carter	Seats (Total: 23)
	Tu 3:30pm - 6:30pm	BPS 1236

FGSM350 **Critical Regions and International Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor.

An examination of international relations and foreign policy challenges in critical regions.

Also offered as HONR378K. Credit granted for FGSM350 or HONR378K.

0101	Danusia Hubah	Seats (Total: 24)
	Tu 7:00pm - 10:00pm	PLS 1172

FGSM360 **U.S. Diplomacy and Policymaking**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor.

An examination of questions and issues in the practice of contemporary diplomacy and policy-making. Guest lecturers drawn from Washington policy-making and foreign service communities will visit class and participate in discussion.

Also offered as HONR378A. Credit granted for FGSM360 or HONR378A.

0101	Raffi Balian, William Usher	Seats (Total: 23)
	Th 7:30pm - 10:30pm	PLS 1117

FGSM370 **Science Diplomacy: Foreign Policy & Science, Technology, and Innovation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor. Credit only granted for: UNIV389F or FGSM370. Formerly: UNIV389F.

An exploration of the critical roles scientific knowledge and technological innovation play in the formation and implementation of foreign policy issues, including energy and climate change, public health, space and innovation, and economic development.

Also offered as HONR378D. Credit granted for FGSM370 or HONR378D.

0101	Griffin Thompson, Jonathan Margolis W 5:00pm - 8:00pm	Seats (Total: 24) SQH 1101

FGSM380 **Responses to Global Challenges**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Global Fellows Program; and permission of instructor. Credit only granted for: UNIV389B or FGSM380. Formerly: UNIV389B.

An examination of global issues and responses primarily from the perspective of the practitioner. The focus will be on social, humanitarian, and human rights issues in different global contexts.

Also offered as HONR378B. Credit granted for FGSM380 or HONR378B.

0101	Rhoda Margesson W 5:30pm - 8:30pm	Seats (Total: 24) SQH 1107

FILM Film Studies Fall 2017

FILM245 **Film Form and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Restriction: Must not have completed ENGL245. Also offered as: ENGL245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Eric Zakim MW 2:00pm - 2:50pm W 3:00pm - 5:30pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 0205	 Lab Discussion
0102	Eric Zakim MW 2:00pm - 2:50pm W 3:00pm - 5:30pm F 11:00am - 11:50am	Seats (Total: 25) TWS 0320 TWS 0320 TWS 1107	 Lab Discussion

0103	Eric Zakim	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	TWS 0320	
	W 3:00pm - 5:30pm	TWS 0320	Lab
	F 12:00pm - 12:50pm	TWS 0201	Discussion
0104	Eric Zakim	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	TWS 0320	
	W 3:00pm - 5:30pm	TWS 0320	Lab
	F 1:00pm - 1:50pm	TWS 1107	Discussion
0201	Paul Cote	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	TWS 0320	
	Tu 3:30pm - 6:00pm	TWS 0320	Lab

FILM298B **Special Topics in International Film Studies; Iranian Cinema I**

Credits: 3 Grading Method: Regular General Education: DSHU

Special topics in International Film.

Also offered as PERS283. Credit granted for PERS283 or FILM283.

0101	Ida Meftahi	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	KEY 0121	

FILM301 **Cinema History I: The Silent Era**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities.

Examines the development of silent cinema from the 1890s to the early 1930s drawing on at least five distinct national traditions (French, German, Russian, British, and American). Introduces students to key cinematic conventions as they emerged around the world.

0101	Elizabeth Papazian	Seats (Total: 30)	
	M 10:00am - 11:50am	HBK 0302H	
	W 10:00am - 11:50am	HBK 0302H	Lab

FILM345 **The Films of Alfred Hitchcock**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities. Credit only granted for: FILM345 or ENGL329J.

An examination of important Hitchcock films from the perspective of innovation, aesthetics, and cultural history.

Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department. Also offered as ENGL329J. Credit only granted for FILM345 or ENGL329J.

0101	Marianne Conroy	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 1106

FILM359N **Special Topics in Genres/Auteurs/Cinema Movements; World Science Fiction Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Also offered as ARTH359N. Credit granted for ARTH389R or FILM359N. The course will examine important global science fiction films, with emphasis on films made by directors in Asia, Africa, Europe, and South America.

0101	Jason Kuo	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	HBK 0302J

FILM388 **Experiential Learning: Film Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Connects students' theoretical understanding of film studies, as obtained through the classroom, to professional experience.

Contact department for information to register for this course.

FILM419B **Special Topics in Documentary, Animation, Experimental Cinema, and Other Media**

Credits: 3 Grading Method: Regular

Advanced studies in Documentary, Animation, Experimental Cinema, and Other Media. Examines the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

0101	Paul Cote	Seats (Total: 25)
	MW 5:00pm - 7:00pm	TWS 0214

FILM419C **Special Topics in Documentary, Animation, Experimental Cinema, and Other Media; Post-1940 American Experimental Cinema**

Credits: 3 Grading Method: Regular

Advanced studies in Documentary, Animation, Experimental Cinema, and Other Media. Examines the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

0101	Matthew Noble-Olson	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 2206

FILM420 **French Cinema: A Cultural Approach (in Translation)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: FREN480. Credit only granted for: FREN480 or FILM420.

A study of French culture, civilization, and literature through the medium of film. Taught in English.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	KNI 1103

FILM429I **Special Topics in National/International Cinemas; Orientalism in Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as FILM429I. Credit granted for ARTH488I or FILM429I. The course will use critical insights from cultural studies, psychoanalysis, post-colonialism, genre criticism, and feminism to examine the politically charged and ideologically biased cinematic representation of the peoples and cultures of North Africa and Asia.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

FILM469I **Special Topics in Film Theories II; Feminist Film and Media Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in film theories.

Also offered as GERM449I and GERM689I. Credit granted for FILM469I, GERM449I, or GERM689I.

0101	Hester Baer	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	HBK 0302H
	Th 2:00pm - 3:15pm	HBK 0302H

FILM499 **Directed Study in Film Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Readings and Research in Film Studies under faculty supervison.

Contact department for information to register for this course.

FIRE First-Year Innovation & Research Experience Fall 2017

FIRE120 **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Liang-Chun Wang	Seats (Total: 36)
	M 12:00pm - 12:50pm	ATL 2339
	Contact instructor or department for details.	
	This section restricted to BioFIRE students.	

0201	Cristina Risco F 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0301	Patrick Killion M 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0401	Yun Choi M 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0501	Jennifer German M 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0601	Amy Stonelake Tu 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0701	Emina Herovic Th 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0801	Vivek Advani M 1:00pm - 1:50pm Contact instructor or department for details. *This section restricted to BioFIRE students.*	Seats (Total: 36) ATL 2339
0901	Nevine El-leithy F 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
1101	Derrick Yeo F 1:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
1201	Mohammad Fazelpour F 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339
1301	Kendall Bustad F 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339

1401	Kyungjin Yoo F 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 36) ATL 2339	
FCH1	Nevine El-leithy Tu 6:00pm - 6:50pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 36) ATL 2339 ONLINE	 Discussion

FIRE120H **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Ian Page M 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 36) ATL 2339
0201	Ashley Nazario Toole W 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 36) ATL 2339

FIRE250 **FIRE SEMESTER 3: Antibiotic Resistance**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE150.

FIRE SEMESTER 3 course for students in the FIRE program joining the Antibiotic Research research stream.

0101	Liang-Chun Wang W 1:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE251 **FIRE SEMESTER 3: Sustainability Analytics**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE151.

FIRE SEMESTER 3 course for students in the FIRE program joining the Sustainability Analytics research stream.

0101	Ian Page Tu 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 20) ATL 2339

FIRE253 **FIRE SEMESTER 3: Found In Translation**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE153.

FIRE SEMESTER 3 course for students in the FIRE program joining the Found In Translation research stream.

0101	Vivek Advani W 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE254 **FIRE SEMESTER 3: Risk Communication & Resilience**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE154.

FIRE SEMESTER 3 course for students in the FIRE program joining the Risk Communication and Resilience research stream.

0101	Emina Herovic Tu 12:30pm - 1:20pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE255 **FIRE SEMESTER 3: Terrapin Genome Project**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE155.

FIRE SEMESTER 3 course for students in the FIRE program joining the Terrapin Genome Project research stream.

0101	Amy Stonelake W 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE257 **FIRE SEMESTER 3: Addiction Science**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE157.

FIRE SEMESTER 3 course for students in the FIRE program joining the Addiction Science research stream.

0101	Cristina Risco W 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE260 **FIRE SEMESTER 3: Transgenerational Brain Initiative**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE160.

FIRE SEMESTER 3 course for students in the FIRE program joining the Transgenerational Brain Initiative research stream.

0101	Yun Choi W 4:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 35) ATL 2339

FIRE263 **FIRE SEMESTER 3: Animal and Human Relationships**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE163.

FIRE SEMESTER 3 course for students in the FIRE program joining the Animal and Human Relationships research stream.

0101	Bridget Makol Th 11:00am - 11:50am Contact instructor or department for details. *For students registering to be a part of the Human Relationships research team.*	Seats (Total: 20) ATL 2339

0201	Bridget Makol	Seats (Total: 15)
	Th 11:00am - 11:50am Contact instructor or department for details.	ATL 2339
	For students registering to be a part of the Animal Relationships research team.	

FIRE264 **FIRE SEMESTER 3: Autonomous Unmanned Systems**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE164.

FIRE SEMESTER 3 course for students in the FIRE program joining the Autonomous Unmanned Systems research stream.

0101	Derrick Yeo	Seats (Total: 40)
	Tu 3:30pm - 4:20pm Contact instructor or department for details.	ATL 2339

FIRE265 **FIRE SEMESTER 3: Designing Innovations**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE165.

FIRE SEMESTER 3 course for students in the FIRE program joining the Designing Innovations research stream.

0101	Mohammad Fazelpour	Seats (Total: 35)
	Th 12:30pm - 1:20pm Contact instructor or department for details.	ATL 2339

FIRE266 **FIRE SEMESTER 3: Evolution of Sex Differences**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE166.

FIRE SEMESTER 3 course for students in the FIRE program joining the Evolution of Exaggerated Traits research stream.

0101	Ashley Nazario Toole	Seats (Total: 35)
	Th 2:00pm - 2:50pm Contact instructor or department for details.	ATL 2339

FIRE267 **FIRE SEMESTER 3: Felons not Families**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE167.

FIRE SEMESTER 3 course for students in the FIRE program joining the Felons not Families research stream.

0101	Kendall Bustad Tu 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 18) ATL 2339

FIRE270 **FIRE SEMESTER 3: Phillips Virtual Culture**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: FIRE170.

FIRE SEMESTER 3 course for students in the FIRE program joining the Phillips Virtual Culture research stream.

0101	Kyungjin Yoo Th 3:30pm - 4:20pm Contact instructor or department for details.	Seats (Total: 40) ATL 2339

FMSC Family Science Fall 2017

FMSC110S **Families and Global Health**

Credits: 3 Grading Method: Regular General Education: DSHS, DVCC

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

0101	Elisabeth Maring TuTh 11:00am - 12:15pm *Restricted to CPSP Global Public Health students.*	Seats (Total: 100) CCC 1100

FMSC111 **Credit Cards and College Students**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

FCW1	Towanda Street	Seats (Total: 36)
	Meets October 15, 2017 - December 11, 2017	
	Class time/details on ELMs	ONLINE
	Restricted to students in Freshmen Connection.	

FMSC170 **Future of Families: Issues and Controversies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.

Examination of current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

FC01	Kimberly Van Putten-Gardner	Seats (Total: 50)
	TuTh 3:00pm - 4:15pm	ESJ 1215
	Restricted to students in Freshmen Connection.	

FMSC190 **Man Up! Where Are The Fathers?**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

0101	Kevin Roy	Seats (Total: 80)
	TuTh 3:30pm - 4:45pm	BPS 1250

FMSC260 **Couple Relationships**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Credit only granted for: FMSC260 or FMST260. Formerly: FMST260.

Couple relationships and their alternatives in contemporary dating, courtship and marriage.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Elise Resnick	Seats (Total: 65)
	TuTh 12:30pm - 1:45pm	KEB 1110

FMSC290 **Family Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.

Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Manouchehr Mokhtari	Seats (Total: 65)
	TuTh 5:00pm - 6:15pm	SPH 1312

FMSC302 **Research Methods in Family Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP

Prerequisite: Must have completed an introductory statistics course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC302 or FMST302. Formerly: FMST302.

Introduction to the methods of the social and behavioral sciences employed in family science. The role of theory, the development of hypotheses, measurement, design, and data analysis.

0101	Ryan Blick	Seats (Total: 75)
	TuTh 9:30am - 10:45am	SPH 1303

FMSC310 **Maternal, Child and Family Health**

Credits: 3 Grading Method: Regular, Pass-Fail

Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.

Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.

0101	Diana Cassar-Uhl Class time/details on ELMs	Seats (Total: 45) ONLINE
0201	Yassaman Vafai TuTh 11:00am - 12:15pm	Seats (Total: 45) SPH 1302
0301	Marie Thoma MWF 10:00am - 10:50am	Seats (Total: 45) SPH 1302
SG91	Alyssa Brooks M 5:15pm - 7:45pm	Seats (Total: 30) BLD3 3240

FMSC330 **Family Theories and Patterns**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS, DVUP

Restriction: Junior standing or higher. Credit only granted for: FMSC330 or FMST330. Formerly: FMST330.

Theory and research on the family, including a cross-cultural analysis of family patterns.

0101	Robyn Zeiger TuTh 9:30am - 10:45am	Seats (Total: 60) SPH 1301
0201	Elise Resnick TuTh 2:00pm - 3:15pm	Seats (Total: 60) EGR 1108
0301	Mia A Smith-Bynum TuTh 11:00am - 12:15pm	Seats (Total: 60) SPH 1301

FMSC332 **Children in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

0101	Amy Lewin TuTh 11:00am - 12:15pm	Seats (Total: 65) SPH 1303
0201	Deirdre Quinn MWF 12:00pm - 12:50pm	Seats (Total: 65) SPH 1303
0301	Christine Schull MW 8:00am - 8:50am F 8:00am - 8:50am	Seats (Total: 65) SPH 1301 ONLINE

FMSC341 **Personal and Family Finance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

0101	Manouchehr Mokhtari TuTh 6:30pm - 7:45pm	Seats (Total: 60) SPH 1312
0201	William Knight Class time/details on ELMs	Seats (Total: 49) ONLINE

FMSC381 **Poverty, Affluence, and Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHS, DVUP

Prerequisite: SOCY100 or SOCY105. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC381 or FMST381. Formerly: FMST381.

Social, political, cultural and economic factors influencing income and wealth in American families.

0101	Kevin Roy MWF 9:00am - 9:50am	Seats (Total: 50) SPH 1302
0201	Laura Golojuch TuTh 3:30pm - 4:45pm	Seats (Total: 50) SPH 1303

FMSC383 **Delivery of Human Services to Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC383 or FMST383. Formerly: FMST383.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

0101	Allyson Pakstis MWF 11:00am - 11:50am	Seats (Total: 65) SPH 1301

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

FMSC430 **Gender Issues in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: SOCY100, SOCY105, or PSYC100. Also offered as: WMST430. Credit only granted for: FMSC430, FMST430, or WMST430. Formerly: FMST430.

The development of historical, cultural, developmental, and psychosocial aspects of masculinity and femininity within the context of contemporary families and the implications for interpersonal relations.

0101	Samuel Allen TuTh 11:00am - 12:15pm	Seats (Total: 45) CCC 1111

FMSC431 **Family Crises and Intervention**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Credit only granted for: FMSC431 or FMST431. Formerly: FMST431.

Family crises such as divorce, disability, substance abuse, financial problems, intra-familial abuse, and death. Theories and techniques for intervention and enhancement of family coping strategies.

0101	Robyn Zeiger TuTh 12:30pm - 1:45pm	Seats (Total: 65) SPH 1301

FMSC432 **Adult Development and Aging in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

0101	Mona Mittal MWF 10:00am - 10:50am	Seats (Total: 40) SPH 0302
0201	Mona Mittal MWF 12:00pm - 12:50pm	Seats (Total: 40) SPH 0302

FMSC460 **Violence in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

0101	Christine Schull MWF 9:00am - 9:50am	Seats (Total: 65) SPH 1301

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

0101	Kecia Ellick W 3:30pm - 5:00pm Contact instructor or department for details.	Seats (Total: 50) SPH 0302

FMSC487 **Legal Aspects of Family Problems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC487 or FMST487. Formerly: FMST487.

Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.

0101	Kerry Tripp TuTh 9:30am - 10:45am	Seats (Total: 55) SPH 1302
0201	Kerry Tripp TuTh 12:30pm - 1:45pm	Seats (Total: 55) SPH 1303

FMSC498 **Special Topics: Family Science; Family Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498H **Special Topics: Family Science; Family Studies Honors Thesis**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498T **Special Topics: Family Science; Independent Study-Coding of Couple Therapy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

0101	Norman Epstein	Seats (Total: 10)
	Contact instructor or department for details.	

FMSC606 **Ethnic Families and Health Disparities**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC606 or FMST606. Formerly: FMST606.

Historical, psychosocial, economic, and political factors influencing the structure and functioning of ethnic families. Overview of racial and ethnic health disparities over the life course and ways in which they are influenced by multi-level contextual factors.

0101	Mia A Smith-Bynum	Seats (Total: 15)
	Th 2:00pm - 4:45pm	Location: TBA

FMSC640 **Family Therapy: Theory and Techniques**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: FMSC640 or FMST640. Formerly: FMST640.

Overview of fundamental theoretical concepts and clinical procedures in marital and family therapy, with an emphasis on those therapies which operate from a family systems perspective.

0101	Patricia Barros	Seats (Total: 11)
	M 10:00am - 12:45pm	Location: TBA

FMSC650 **Ethical, Legal, and Professional Principles in Marriage and Family Therapy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Family Science department. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC650 or FMST650. Formerly: FMST650.

An introduction to the basic principles and practices of family therapy Emphasis on basic therapy skills applied to a family context and on professional ethics of the family practitioner. Addresses therapist's legal responsibilities and liabilities, certification, and licensure issues.

0101	Norman Epstein Tu 9:00am - 11:45am	Seats (Total: 25) Location: TBA

FMSC652 **Diagnosis and Treatment of Mental and Emotional Disorders in Family Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: FMSC651. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC652 or FMST652. Formerly: FMST652.

Systematic assessment, diagnosis, and treatment of mental and emotional disorders in couples and families. Utilization and critique of the current Diagnostic Statistical Manual Disorders (DSM).

0101	Leigh Leslie Tu 9:00am - 11:45am *Class will be held in SPH0142X.*	Seats (Total: 20) Location: TBA

FMSC658 **Supervised Clinical Practice of Marriage and Family Therapy**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

The supervision of marriage and family therapy client contact. Various family systems models of supervision applied via extant methods, including live, videotaped, and audiotaped.

Prerequisite: FMST 650 and permission of instructor.

0101	Norman Epstein W 9:00am - 12:00pm	Seats (Total: 20) Location: TBA

FMSC660 **Program Planning and Evaluation in Family Science**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC660 or FMST660. Formerly: FMST660.

Theory and methods of program planning and evaluation with special emphasis on family programs. Assessment of program goals and the social and psychological factors involved in program implementation. Methods for measuring the effectiveness of program delivery, as well as the impact of services on family functioning.

0101	Amy Lewin M 1:00pm - 3:45pm	Seats (Total: 15) Location: TBA

FMSC689 **Research Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC698B **Advanced Topics in Family Science; Emerging Mental Health Issues in Family Therapy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Contact department for information to register for this course.

0101	Norman Epstein M 1:00pm - 3:45pm	Seats (Total: 10) Location: TBA

FMSC699 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC745 **Gender and Ethnicity in Family Therapy and Service Delivery**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC745 or FMST745. Formerly: FMST745.

Major critiques of sources of racial, cultural, and gender bias in marital and family therapy and family service delivery. Addresses these issues in program development and clinical practice.

0101	Leigh Leslie F 9:00am - 11:45am	Seats (Total: 15) Location: TBA

FMSC789 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC879 **Preparing Future Faculty and Professionals Seminar**

Credits: 1 Grading Method: Regular

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health.

0101	Sandra Quinn	Seats (Total: 30)
	W 1:00pm - 1:50pm	Location: TBA

FMSC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FREN103 **Intensive Elementary French**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Leandra Cormier MW 10:00am - 10:50am F 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 1122 WDS 1130 ONLINE
BL02	Leandra Cormier MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0118 ONLINE
BL03	Elizabeth Robinson MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 1122 ONLINE

FREN203 **Intensive Intermediate French**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Julie Ledon MWF 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2123 ONLINE
BL02	Hannah Wegmann MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2123 ONLINE
BL03	Cae Joseph-Massena MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE

BL04	Cae Joseph-Massena MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE

FREN204 **French Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

BL01	Francesca Roth MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2120 ONLINE
BL02	Francesca Roth MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2120 ONLINE

FREN211 **French Reading and Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN250 **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

Also offered as FREN 250H.

0101	Morgan McMahon MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0125
0201	Morgan McMahon MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN250H **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

For general honors students only. Also offered as FREN 250.

0101	Morgan McMahon MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0125
0201	Morgan McMahon MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269P **Special Topics in Study Abroad II; Perspectives on Contemporary France**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN301 **Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

0101	Charlee Redman TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 1215
0201	Carol Mossman MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2206

FREN301H **Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

0201	Carol Mossman MW 3:30pm - 4:45pm	Seats (Total: 1) JMZ 3118

FREN303 **Translation: English to French**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Practicum in translation primarily from English to French; contrastive analysis.

0101	Catherine Favier-Kelly TuTh 11:00am - 12:15pm	Seats (Total: 20) JMZ 2123

0201	Elena Lozinsky	Seats (Total: 20)
	Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	JMZ 0125 LEF 1171

FREN306 **Commercial French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Introduction to commercial French including correspondence and business terminology. Emphasis on cross-cultural concepts needed for successful interaction within business settings. Taught in French.

Contact department for information to register for this course.

FREN311 **Advanced Oral Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using variou French media resources.

0101	Herve Campangne	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 3205

FREN351 **From Romanticism to the Age of Modernism and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN 351H.

0101	Caroline Eades	Seats (Total: 25)
	Tu 12:30pm - 1:45pm	JMZ 0208
	Th 12:30pm - 1:45pm	JMZ 0208

FREN351H **From Romanticism to the Age of Modernism and Beyond**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN351.

0101	Caroline Eades	Seats (Total: 25)
	Tu 12:30pm - 1:45pm	JMZ 0208
	Th 12:30pm - 1:45pm	JMZ 0208

FREN352 **From the Age of Epic and Romance to the Enlightenment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

FREN389B **Critical Writing on France and the French-Speaking World; Dreams, Demons and the Fantastic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Intensive writing course based on focused study of issues and concerns drawn from French and Francophone literatures, films, and cultures. Elements of style, review of grammar.

0101	Erica Cefalo	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMZ 0205

FREN399 **Directed Study in French**

(Perm req)

Credits: 1-3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Supervised work under professor of student's choice with permission of instructor. Contact department for details.

Contact department for information to register for this course.

FREN399A **Directed Study in French**

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN401 **Writing with Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Advanced composition and stylistic analysis.

Contact department for information to register for this course.

FREN480 **French Cinema: A Cultural Approach (in Translation)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Also offered as: FILM420. Credit only granted for: FREN480 or FILM420.

A study of French culture, civilization, and literature through the medium of film. Taught in English.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	KNI 1103

FREN488Z **Special Topics in Francophone Studies; Literature and Film from French-Speaking Africa and the Caribbean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic and language of instruction to be announced when offered.

Prerequisites: FREN 301 and FREN 351/352 French 488 considers the historical, literary and cinematic evolution of Francophone literature and films of Africa, the Maghreb and the Caribbean.

0101	Valerie Orlando	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 2123

FREN495H **Honors Thesis Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the departmental honors program.

The writing of a paper under the direction of a professor in this department and an oral examination. Required to fulfill the departmental honors requirement.

Contact department for information to register for this course.

FREN499 **Special Topics in French Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN499X **Special Topics in French Studies; Directed Study in French**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN629B **Special Topic in Sixteenth Century French Literature; Theater in 16th and 17th Century France**

Credits: 3

Grading Method: Regular, Audit

"In this course we will study tragedy and comedy in sixteenth and seventeenth century France, in connection with the development of a culture that more generally favored eloquence, conversation, and variousforms of theatrical expression. Authors include Corneille, Racine, Moli re and Rotrou. Taught in French."

0101	Herve Campangne	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 2123

FREN659A **Special Topic in Nineteenth Century French Literature; Sexualities in the Nineteenth-Century French Novel**

Credits: 3

Grading Method: Regular, Audit

French 659 will explore the theme of sexuality as it is articulated in the nineteenth-century novel. The nineteenth-century sees the rise of feminism as well as a gay/lesbian collective awareness alongside the emergence of tendentious studies by the medical establishment of transgressive sexualities. The novel is an ideal vehicle through which to articulate cultural anxieties related to sexuality, among other issues. French 659 will proceed chronologically, moving through the major literary movements of the nineteenth century.

0101	Carol Mossman	Seats (Total: 10)
	W 4:30pm - 7:15pm	JMZ 1226

FREN798 **Master's Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

FREN889 **Doctoral Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEMS Gemstone Fall 2017

GEMS100 **Freshman Honors Colloquium: Introduction to Gemstone**

Credits: 1 Grading Method: Regular

Restriction: Freshman standing; and must be in the Gemstone program.

Orienting new Gemstone students to the university and to the program through a variety of team building activities, resources, and skill exploration exercises. Students will also examine and discuss areas such as liberal education, diversity, service, arts, current events, academic integrity, and leadership style.

These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin, Kristan Skendall Tu 2:00pm - 3:15pm	Seats (Total: 16) ELL 0102
0102	Leah Kreimer Tobin, Kristan Skendall Tu 4:45pm - 6:00pm	Seats (Total: 16) ELL 0102
0103	Kristan Skendall, Leah Kreimer Tobin W 10:00am - 11:15am	Seats (Total: 12) ELL 0100D
0104	Leah Kreimer Tobin, Kristan Skendall W 12:30pm - 1:45pm	Seats (Total: 16) ELL 0102
0105	Leah Kreimer Tobin, Kristan Skendall W 2:00pm - 3:15pm	Seats (Total: 12) ELL 0100D
0106	Kristan Skendall, Leah Kreimer Tobin W 3:30pm - 4:45pm	Seats (Total: 12) ELL 0100A
0107	Leah Kreimer Tobin, Kristan Skendall W 4:45pm - 6:00pm	Seats (Total: 12) ELL 0100D
0108	Leah Kreimer Tobin, Kristan Skendall Th 10:30am - 11:45am	Seats (Total: 16) ELL 0102
0111	Leah Kreimer Tobin, Kristan Skendall Th 4:30pm - 5:45pm	Seats (Total: 12) ELL 0100A
0112	Kristan Skendall, Leah Kreimer Tobin Th 5:00pm - 6:15pm	Seats (Total: 12) ELL 0100D
0114	Leah Kreimer Tobin, Kristan Skendall F 11:15am - 12:30pm	Seats (Total: 16) ELL 0102
0115	Leah Kreimer Tobin, Kristan Skendall F 1:30pm - 2:45pm	Seats (Total: 12) ELL 0100D

GEMS202 **Team Dynamics and Research Methodology**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS296. Restriction: Must be in the Gemstone program; and sophomore standing or higher.

This experiential course is designed to foster an understanding of effective team dynamics and basic research methodology. It will teach skills applicable to Gemstone team research and the writing of a team thesis. Upperclass Gemstone students serve as discussion facilitators. Students participate in their Gemstone teams and develop a draft of their team thesis proposal.

0101	Kristan Skendall, Frank Coale	Seats (Total: 168)
	Tu 5:00pm - 6:30pm	EGR 1202
	Contact instructor or department for details.	

GEMS208A **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: First Time Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall	Seats (Total: 12)
	Contact instructor or department for details.	

GEMS208B **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: Returner Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall	Seats (Total: 12)
	Contact instructor or department for details.	

GEMS208C **Special Topics in Leadership and Team Development; Introduction to Gemstone: First Time Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin, Kristan Skendall	Seats (Total: 15)
	Contact instructor or department for details.	

GEMS208D **Special Topics in Leadership and Team Development; Introduction to Gemstone: Returner Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin, Kristan Skendall	Seats (Total: 10)
	Contact instructor or department for details.	

GEMS208E **Special Topics in Leadership and Team Development; GEMS Connect**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Jessica Lee	Seats (Total: 30)
	Contact instructor or department for details.	

GEMS208L **Special Topics in Leadership and Team Development; GEMS GSC Executive Board**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Jessica Lee Contact instructor or department for details.	Seats (Total: 6)

GEMS296 Team Project Seminar I

Credits: 1 Grading Method: Regular

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS202. Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the first of six seminars during which Gemstone students carry out multidisciplinary research with the guidance of a faculty mentor. The teams develop their working relationship, start their literature search, define their research question, and set short & long term goals.

0101	Matthias Zwicker Tu 6:30pm - 7:30pm	Seats (Total: 12) MTH 0401
0102	Kevin Knapstein Th 7:00pm - 7:50pm Tu 6:30pm - 7:30pm	Seats (Total: 12) Location: TBA MTH 0302
0103	Mohamad Al-Sheikhly M 1:00pm - 1:50pm	Seats (Total: 12) Location: TBA
0104	Jose Aranda-Espinoza F 3:00pm - 3:50pm Tu 8:00pm - 9:00pm	Seats (Total: 12) EGR 3138 Location: TBA
0105	Joanna Goger Th 8:00am - 9:00am Tu 6:30pm - 7:30pm	Seats (Total: 12) SYM 0215 MTH 0403
0106	Bao Yang Tu 6:30pm - 7:20pm W 5:00pm - 5:50pm	Seats (Total: 12) Location: TBA HBK 0125

0107	Ashok Agrawala Tu 6:40pm - 7:40pm W 5:00pm - 5:50pm	Seats (Total: 12) EGR 3111 Location: TBA
0108	Margret Bjarnadottir, Sean Barnes W 3:00pm - 3:50pm	Seats (Total: 12) Location: TBA
0109	Anil Deane M 5:00pm - 5:50pm	Seats (Total: 12) Location: TBA
0110	Lester Schultheis W 3:00pm - 3:50pm Tu 6:30pm - 7:30pm	Seats (Total: 12) Location: TBA Location: TBA
0111	David Akin Tu 3:30pm - 4:30pm Th 5:30pm - 6:30pm	Seats (Total: 12) Location: TBA KEY 0100
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS297 **Team Project Seminar II**

Credits: 2 Grading Method: Regular

Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the second of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team develops its website, prepares and presents its research proposal and begins its research project.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS396 **Team Project Seminar III**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.

0101	Robert Newcomb Th 5:00pm - 5:50pm Th 6:00pm - 6:50pm	Seats (Total: 14) Location: TBA Location: TBA
0102	Stephen Penny Tu 8:00am - 9:00am Th 5:30pm - 6:30pm	Seats (Total: 14) Location: TBA ESJ 1212
0103	Kaye Brubaker Tu 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 14) MTH 0403 MTH 0106
0104	Min Ouyang M 6:30pm - 7:30pm Tu 5:00pm - 5:50pm	Seats (Total: 14) PHY 4222 Location: TBA
0105	Ryan Sochol W 5:00pm - 5:50pm Th 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA SQH 1107
0106	Debabrata Biswas Tu 5:00pm - 5:50pm Th 5:00pm - 5:50pm	Seats (Total: 14) ATL 1109 JMZ 1117
0107	Kennedy Paynter MW 1:00pm - 1:50pm	Seats (Total: 14) Location: TBA
0108	Jin-Oh Hahn M 8:00pm - 8:50pm W 6:30pm - 7:30pm	Seats (Total: 14) JMZ 1103 Location: TBA
0109	David Akin M 5:15pm - 6:30pm Th 3:15pm - 4:30pm	Seats (Total: 14) LEF 1201 Location: TBA
0110	Michael Binder TuTh 6:15pm - 7:15pm	Seats (Total: 14) Location: TBA
0111	Pamela Abshire Tu 5:15pm - 6:15pm F 10:00am - 10:50am	Seats (Total: 14) EGR 1102 MTH 0102

0112	Kristan Skendall Tu 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 14) MCK 2105 EGR 3102
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS397 **Team Project Seminar IV**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the fourth of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team further develops its website. Also they will prepare and present the team project in the poster session of Undergraduate Research Day.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS496 **Project Writing Seminar**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS397. Restriction: Must be in the Gemstone program.

This is the fifth of six seminars during which Gemstone students carry out research with the guidance of a faculty mentor. The team finishes the analysis of their data and writes and edits its team thesis.

0101	Anil Deane M 4:00pm - 4:50pm Tu 6:30pm - 7:30pm	Seats (Total: 14) Location: TBA Location: TBA
0102	Siddhartha Das Th 5:30pm - 7:30pm	Seats (Total: 14) EGR 0151
0103	David Zajic Tu 6:30pm - 7:30pm Th 6:30pm - 7:30pm	Seats (Total: 14) ESJ B0320 ESJ B0320
0104	William Bentley W 7:00pm - 8:50pm Contact instructor or department for details.	Seats (Total: 14) ESJ B0320

0105	Nam Sun Wang W 5:30pm - 6:30pm F 1:00pm - 1:50pm	Seats (Total: 14) HBK 1112 HBK 1112
0106	Andrew Ristvey M 6:30pm - 7:30pm Th 6:30pm - 7:30pm	Seats (Total: 14) PLS 1172 PLS 2107
0107	Bryan Quinn MTu 8:00am - 8:50am	Seats (Total: 14) AVW 1318
0108	Ben Woodard WF 8:00am - 8:50am	Seats (Total: 14) Location: TBA
0109	Steven Jay MW 8:00am - 8:50am	Seats (Total: 14) JMZ 0118
0110	Debabrata Biswas M 8:00am - 8:50am M 5:00pm - 5:50pm	Seats (Total: 14) Location: TBA Location: TBA
0111	Mark Fuge F 1:00pm - 1:50pm M 6:00pm - 6:50pm	Seats (Total: 14) Location: TBA EGR 3106
0112	Yanjin Zhang Tu 9:30am - 10:30am Th 9:30am - 10:30am	Seats (Total: 14) Location: TBA BPS 1232
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 3)

GEMS497 **Team Thesis Defense**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program.

Gemstone teams will complete the team research project and thesis. The team will formally present the thesis to experts in the area of interest at a Team Thesis Conference before final submission.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEOG Geographical Sciences Fall 2017

GEOG110 **The World Today: Global Perspectives**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

FC01	Rachel Berndtson MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) KEY 0116	

GEOG130 **Developing Countries**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DSSP

An introduction to the geographic characteristics of the development problems and prospects of developing countries. Spatial distribution of poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected developing countries.

0201	Ronald Luna MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 24) LEF 2205 LEF 1201	Discussion
0202	Ronald Luna MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 24) LEF 2205 LEF 1220	Discussion
0203	Ronald Luna MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 24) LEF 2205 ESJ B0320	Discussion
0204	Ronald Luna MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 24) LEF 2205 ESJ B0320	Discussion

0205	Ronald Luna MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 24) LEF 2205 JMZ 1124	Discussion
0206	Ronald Luna MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 ATL 1114	Discussion
0207	Ronald Luna MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 24) LEF 2205 LEF 1221	Discussion
0208	Ronald Luna MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 ESJ B0320	Discussion
0209	Ronald Luna MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 ATL 1114	Discussion
0210	Ronald Luna MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 ESJ B0320	Discussion
FC01	Ronald Luna TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 60) MMH 1400	

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common i this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0101	Keith Yearwood MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 EDU 3236	Discussion
0102	Keith Yearwood MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 LEF 1201	Discussion
0103	Keith Yearwood MW 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 25) LEF 2205 CHM 0124	Discussion
0104	Keith Yearwood MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) LEF 2205 LEF 1201	Discussion
0105	Keith Yearwood MW 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 25) LEF 2205 EGR 1102	Discussion
0106	Keith Yearwood MW 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 25) LEF 2205 LEF 1222	Discussion
FC01	Keith Yearwood MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 59) TYD 2109	

GEOG170 **Introduction to Methods of Geospatial Intelligence and Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSNS

Introduction to technical methods used in gathering, analyzing, and presenting geospatial information, addressing the needs of geospatial analysis, such as environmental monitoring, situational awareness, disaster management, and human systems. Topics include basics of locational reference systems, map projections, satellite and airborne remote sensing, global positioning systems, geographic information systems, cartography, and introductory statistics and probability. The course is a gateway to more advanced technical classes in geoinformatics.

0101	Grant McKenzie TuTh 4:00pm - 5:15pm	Seats (Total: 240) LEF 2205	

FC01	Rachel Marks	Seats (Total: 24)	
	TuTh 7:30pm - 8:45pm	HBK 0123	
	Restricted to students in Freshmen Connection.		

GEOG201 **Geography of Environmental Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

0101	Joshua Wayland, Keith Yearwood	Seats (Total: 240)	
	TuTh 9:30am - 10:45am	ESJ 0202	

GEOG211 **Geography of Environmental Systems Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

This is a 2 hr, 1 credit lab which parallels GEOG 201; Required for GEOG majors; optional for non-majors.

0101	Joshua Wayland	Seats (Total: 24)		
	Class time/details on ELMs	ONLINE	Lab	
0201	Joshua Wayland	Seats (Total: 24)		
	Class time/details on ELMs	ONLINE	Lab	
0301	Joshua Wayland	Seats (Total: 24)		
	Class time/details on ELMs	ONLINE	Lab	
0401	Joshua Wayland	Seats (Total: 24)		
	Class time/details on ELMs	ONLINE	Lab	
0501	Joshua Wayland	Seats (Total: 24)		
	Class time/details on ELMs	ONLINE	Lab	

0601	Lei Ma	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0701	Lei Ma	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0801	Lei Ma	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
0901	Lei Ma	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab
1001	Lei Ma	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	Lab

GEOG212 **Career Planning for Geographical Sciences, GIS, and ENSP Majors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Geography; GEOG-GIS & Computer Cartography).

Increase student knowledge of professional development opportunities in Geographical Sciences through classroom activities and invited speakers, and to build awareness of career development tools and strategies.

0101	Amanda Hall	Seats (Total: 30)	
	M 11:00am - 1:00pm	LEF 2208	Lab

GEOG306 **Introduction to Quantitative Methods for the Geographic Environmental Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou MW 9:00am - 9:50am W 11:00am - 1:00pm	Seats (Total: 25) LEF 1158 LEF 1136	 Lab
0102	Naijun Zhou MW 9:00am - 9:50am Tu 11:00am - 1:00pm *Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.*	Seats (Total: 25) LEF 1158 LEF 1136	 Lab

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

0101	Rachel Berndtson MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 25) ESJ 2208 ESJ 1309	 Discussion
0102	Rachel Berndtson MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 25) ESJ 2208 ESJ 1309	 Discussion
0103	Rachel Berndtson MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) ESJ 2208 ESJ 1309	 Discussion
0104	Rachel Berndtson MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 2208 ESJ 1309	 Discussion
0105	Rachel Berndtson MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 22) ESJ 2208 ESJ 1309	 Discussion

0106	Rachel Berndtson MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 2208 ESJ 1309	 Discussion

GEOG332 **Economic Geography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG203, GEOG303, or GEOG332. Formerly: GEOG303.

Principles of managing scarce resources in a world where everyone faces tradeoffs across both time and space. Focuses on the relationship between globalization processes and changing patterns of locational advantages, production, trade, population, socioeconomic and environmental grace and sustainability.

0101	Joshua Wayland MW 4:00pm - 4:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 JMZ 1124	 Discussion
0102	Joshua Wayland MW 4:00pm - 4:50pm F 12:00pm - 12:50pm	Seats (Total: 25) LEF 2205 LEF 1201	 Discussion
0103	Joshua Wayland MW 4:00pm - 4:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 LEF 1201	 Discussion
0104	Joshua Wayland MW 4:00pm - 4:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 LEF 1222	 Discussion

GEOG372 **Remote Sensing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Principles of remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

Students must pay a $40.00 laboratory materials fee.

0101	Petr Potapov TuTh 9:30am - 10:45am F 9:00am - 11:00am	Seats (Total: 25) LEF 1158 LEF 1136	 Lab
0102	Petr Potapov TuTh 9:30am - 10:45am F 11:00am - 1:00pm *Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.*	Seats (Total: 25) LEF 1158 LEF 1136	 Lab

GEOG373 **Geographic Information Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou MW 10:00am - 10:50am F 9:00am - 11:00am *Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.*	Seats (Total: 25) TYD 2109 LEF 1138	 Lab
0102	Naijun Zhou MW 10:00am - 10:50am F 1:00pm - 3:00pm	Seats (Total: 25) TYD 2109 LEF 1136	 Lab
0103	Naijun Zhou MW 10:00am - 10:50am Th 1:00pm - 3:00pm	Seats (Total: 25) TYD 2109 LEF 1136	 Lab

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG384H **Internship in Geography I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG385H **Internship in Geography II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG398 **Special Topics in Geography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG398H **Special Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

0101	Grant McKenzie	Seats (Total: 1)
	Contact instructor or department for details.	

GEOG416 **Conceptualizing and Modeling Human-Environmental Interactions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG306, STAT100, MATH107, or MATH111; and (GEOG201 and GEOG202); and (GEOG331 or GEOG330). Corequisite: MATH130, MATH140, or MATH120; or MATH220. Credit only granted for: GEOG416 or GEOG498N. Formerly: GEOG498N.

Develops skills to carry out research that integrates environmental and economic aspects of sustainability by introducing extensively used quantitative tools for analyzing human-environmental interactions in the field of ecological economics. These include, e.g., index number calculations and decomposition analysis, Environmental Kuznets Curve (EKC), environmental input-output analysis and life-cycle analysis, and multi-criteria decisions aid (MCDA). Students will need laptops to run models during class.

Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.

0101	Kuishuang Feng	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	LEF 1220

GEOG418 **Field and Laboratory Techniques in Environmental Science**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Lecture and laboratory learning each week. A variable credit course tha introduces field and laboratory analyses in environmental science. Individual learning contract are developed with instructor.

Lecture and laboratory learning each week. A variable credit course that introduces field and laboratory analyses in environmental science. Individual learning contract are developed with instructor. Students must pay a $300.00 lab fee.

0101	Ralph Dubayah	Seats (Total: 25)
	Contact instructor or department for details.	

GEOG422 **Changing Geographies of Sub-Saharan Africa**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202; and (GEOG335 or GEOG333). Recommended: GEOG130 or GEOG110. Credit only granted for: GEOG328C, GEOG422. Formerly: GEOG328C.

Students will develop an understanding of the geographic contexts of SubSaharan Africa, including an overview of the physical, bioclimatic, historical, cultural, political, demographic, health and economic geographies of Sub-Saharan Africa. Students will fill in the map of Africa by studying the spatial distribution within each of these geographic domains. In addition to an overview of geography South of the Sahara, the Congo will be taken as a more intensive case study through additional readings, lectures and discussions.

0101	Matthew Hansen	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	LEF 2166

GEOG423 **Latin America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201 and GEOG202; and (GEOG332, GEOG435, or GEOG333). Recommended: GEOG130 and GEOG110. Credit only granted for: GEOG313 or GEOG423. Formerly: GEOG313.

A geography of Latin America and the Caribbean in the contemporary world: political and cultural regions, population and natural resource distribution, economic and social development, poverty, crime, urbanization, migration trends, and natural disasters.

0101	Ronald Luna	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1201

GEOG431 **Culture and Natural Resource Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG421 or GEOG431. Formerly: GEOG421.

Basic issues concerning the natural history of humans from the perspective of the geographer. Basic components of selected behavioral and natural systems, their evolution and adaptation, and survival strategies.

0101	Martha Geores	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1158

GEOG432 **Spatial Econometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202; and GEOG306; and GEOG332. Also offered as: GEOG732. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 24)
	Tu 3:30pm - 6:00pm	LEF 1171

GEOG442 **Biogeography and Environmental Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG301. And GEOG201 and GEOG211; or permission of BSOS-Geography department. Also offered as: GEOG642. Credit only granted for: GEOG642, GEOG442, GEOG447, or GEOG484. Formerly: GEOG447.

Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.

0101	George Hurtt	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	TYD 2109	

GEOG475 **Computer Cartography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG306. Credit only granted for: GEOG471 or GEOG475. Formerly: GEOG471.

Advanced skills of computer mapping using more sophisticated software packages. Map projection evaluation and selection, coordinate system conversion, techniques of quantitative thematic mapping, map design and generalization, hypermedia and animated cartography. Emphasis on designing and making cartographically sound sophisticated thematic maps.

Students must pay a $40.00 laboratory materials fee.

0101	Kathleen Stewart	Seats (Total: 25)	
	MW 3:00pm - 3:50pm	LEF 1158	
	F 11:00am - 1:00pm	LEF 1138	Lab
0102	Kathleen Stewart	Seats (Total: 25)	
	MW 3:00pm - 3:50pm	LEF 1158	
	F 1:00pm - 3:00pm	LEF 1138	Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.		

GEOG476 **Object-Oriented Computer Programming for GIS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG376; or permission of BSOS-Geography department. And must have completed MATH220; or must have completed or be concurrently enrolled in MATH120, MATH130, or MATH140. Restriction: Must be in Geography program; or must be in GIS minor. Credit only granted for: GEOG498G or GEOG476. Formerly: GEOG498G.

Expands on conceptual and practical aspects of programming for geographic applications. The main focus of this course is to provide students more advanced programming in object oriented programming languages (i.e. Python). In addition, students will develop a proficiency in applying these advanced programming principles to manipulating spatial data sources within the Geographic Information Systems (GIS).

Students must pay a $40.00 laboratory materials fee.

0101	Federico Iuricich	Seats (Total: 25)	
	MW 9:00am - 9:50am W 10:00am - 12:00pm	LEF 1220 LEF 1138	 Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only; or must be a GIS minor.		

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG498K **Topical Investigations; Web GIS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

For majors only. Since 2000, Internet has become the major GIS platform, and a majority of GIS applications are Internet or Web based. This course aims to introduce the development of Web-based systems to search and browse geographic data, and to explain the principals and methods necessary to develop such systems. To achieve this objective, multiple topics will be covered, which include Web design and development, HTML and JavaScript, ArcGIS server, Web services, ArcGIS API for JavaScript, ArcGIS online, and Google Map API. Students will form small groups and complete a course project of develop a Web GIS using ArcGIS API for JavaScript and ArcGIS Server.

0101	Naijun Zhou	Seats (Total: 24)	
	MW 12:00pm - 12:50pm W 1:00pm - 3:00pm	LEF 1158 LEF 1136	 Lab
	Restriction: Open to GEOG, GIS, & ENSP-Coastal, Land Use, Global majors only.		

GEOG498Q **Topical Investigations; Studying Social Networks: Theory, Methods, and Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Restriction: permission of department or instructor required. This course is intended as a survey of the theory and methods pertaining to social networks. Class time will be devoted to learning principles, theoretical perspectives, and appropriate software packages (mainly those in R) for designing a study for gathering network data, and analyzing those data. The readings are a combination of introductory-level material, classic, scholarly readings in the field, and empirical studies that apply social network analytic techniques to topics relevant to the social sciences as a whole. The first weeks are structured around readings, group discussion, and lab (e.g. going through example scripts in R). The last few weeks are geared more towards students individual projects, culminating in small presentations (similar to conference paper presentations) on a topic of your choosing, and a final paper/project, again shaped according to your own needs/interests.

0101	Christina Prell	Seats (Total: 5)
	W 4:00pm - 6:30pm	LEF 1158

GEOG601 **The Nature and Practice of Science**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG601 or GEOG788N. Formerly: GEOG788N.

Introduces students to the nature and practice of science in physical and human geography, including practical methods for research productivity, professional, societal and ethical obligations of scientists, the philosophy of science, and the scientific literature. Students will prepare and critically evaluate research proposals.

0101	Klaus Hubacek	Seats (Total: 24)
	M 2:00pm - 4:30pm	LEF 1171

GEOG603 **Masters Research Tutorial**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG608 **Comprehensive Portfolio Assessment Summary**

Credits: 1-3 Grading Method: Sat-Fail

Evaluation of a PhD student's portfolio.

Contact department for information to register for this course.

GEOG642 **Biogeography and Environmental Change**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Geography department. Also offered as: GEOG442. Credit only granted for: GEOG788C, GEOG642, or GEOG442. Formerly: GEOG788C.

Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.

0101	George Hurtt	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	TYD 2109

GEOG650 **MOBILE GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG657. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course covers how to create, test, and publish mobile GIS applications that work across multiple platforms (Android, iOS, and Black Berry Tablet OS) and adapt to a smartphone or tablet display.

Contact department for information to register for this course.

GEOG652 **Digital Image Processing and Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Digital image processing and analysis applied to satellite and aircraft land remote sensing data. Consideration is given to preprocessing steps including calibration and geo registration. Analysis methods include digital image exploration, feature extraction thematic classification, change detection, and biophysical characterization. One or more application examples may be reviewed.

Contact department for information to register for this course.

GEOG653 **Spatial Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Methods of spatial analysis including measuring aspects of geometric features and identifying spatial patterns of geospatial objects that are represented as point, line, network, areal data, and 3-D surfaces.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG654 **GIS and Spatial Modeling**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

Provide foundations and understanding on various issues related to modeling and simulation in GIS context. It will addresses the concepts, tools, and techniques of GIS modeling, and presents modeling concepts and theory as well as provides opportunities for hands-on model design, construction, and application. The focus will be on raster-based modeling. This course is also application-orientated, particularly in these fields such as terrain modeling, LULC modeling, hydrological modeling, suitability modeling, etc.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG656 **Programming and Scripting for GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

An introduction to programming and scripting for intermediate GIS users. The fundamental concepts of computer programming will be introduced within the Geoprocessing framework in ArcGIS primarily using Python. Basic concepts of object-oriented programming and scripting will be presented. Students will develop skills in programming techniques to explore, manipulate and model spatial data using the Geoprocessor methods.

Contact department for information to register for this course.

GEOG661 **Fundamentals of Geospatial Intelligence**

Credits: 3 Grading Method: Regular

Geospatial Intelligence (GEOINT) is the collection, analysis, visualization and dissemination of geospatial information to support decision-making. This course introduces the fundamental knowledge required to become a successful GEOINT practitioner, including the history of the GEOINT discipline, the intelligence applications of remote sensing and Geographic Information Systems (GIS) technologies, and how GEOINT products are used to support national security and humanitarian missions. Upon completion of this course you will understand the roles that technology, policy, doctrine, government, and industry play in shaping the Geospatial Intelligence discipline, and develop the technical knowledge and domain expertise to create basic GEOINT products that provide context for decision makers.

Geospatial Intelligence (GEOINT) is the collection, analysis, visualization and dissemination of geospatial information to support decision-making. This course introduces the fundamental knowledge required to become a successful GEOINT practitioner, including the history of the GEOINT discipline, the intelligence applications of remote sensing and Geographic Information Systems (GIS) technologies, and how GEOINT products are used to support national security and humanitarian missions. Upon completion of this course you will understand the roles that technology, policy, doctrine, government, and industry play in shaping the Geospatial Intelligence discipline, and develop the technical knowledge and domain expertise to create basic GEOINT products that provide context for decision makers.

Contact department for information to register for this course.

GEOG662 **Advances in GIS and Remote Sensing**

Credits: 3 Grading Method: Regular, Audit

Recommended: Students taking the course must be familiar with data structures, basic GIS and RS concepts, and demonstrate basic understanding of using GIS and RS software. Restriction: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences MPS or graduate certificate program.

Focuses on state-of-the-art advances in geographic information science and remote sensing as they support geospatial intelligence. Focus on synergies between GIS and remote sensing in informatics, computer science, and spatial engineering, and their application to problem domains in human systems, physical systems, and cyberspace. Advances in GIS presents recent advances regarding fundamental issues of geo-spatial information science (space and time, spatial analysis, uncertainty modeling and geo-visualization), and new scientific and technological research initiatives for geo-spatial information science (such as spatial data mining, mobile data modeling, and location-based services). Advances in remote sensing will provide opportunity to understand and work with latest developments in the Remote Sensing datasets. The curriculum covers wide range of remote sensing data interpretation and their processing techniques.

Assuming a basic understanding of geographic information systems and services, and remote sensing techniques, this course focuses on the state-of-the-art advances in geographic information science and remote sensing data acquisition as they support geospatial intelligence. The course will focus on synergies between GI science and remote sensing in informatics, computer science, and spatial engineering, and their application to problem domains in human systems, physical systems, and cyberspace. Current topics include the shift toward open source geospatial data, temporal data, place-based data, cyberinfrastructure, unmanned vehicles, machine vision, high-performance and distributed computing for data fusion, and geocomputing.

Contact department for information to register for this course.

GEOG671 **Remote Sensing Instruments and Observtions**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG472; or students who have taken courses with comparable content may contact the department; or permission of BSOS-Geography department.

Detailed examination of land remote sensing instruments, observatories and resultant measurements in the optical portion of the EM spectrum. Includes computer-based exercises that examine the importance of data geo-registration and radiometric calibration in land measurements.

Students must pay a $40.00 laboratory materials fee.

0101	Tatiana Loboda	Seats (Total: 24)
	W 1:00pm - 3:30pm	LEF 1171

GEOG686 **Mobile GIS and Geocomputing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences MPS or graduate certificate program. Recommended: Students taking the course must be familiar with data structures, basic GIS concepts, and demonstrate basic understanding of object-oriented programming under GIS environment. Credit only granted for: GEOG477, GEOG498V, GEOG788V or GEOG777. Additional information: Tablets that run android and iOS will be loaned to registered students at no cost.

An introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and to the design and implementation of a mobile GIS application. Covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. Leverages the capabilities of JavaScript, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS apps.

Designed as an introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and more importantly, to the design and implementation of a mobile GIS application. Covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. Leverages the capabilities of JavaScript, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS web apps.

Contact department for information to register for this course.

GEOG732 **Spatial Econometrics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG306; and GEOG202; and GEOG332. Also offered as: GEOG432. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E, GEOG788E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 24)
	Tu 3:30pm - 6:00pm	LEF 1171

GEOG788 **Selected Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular

Readings and discussion on selected topics in the field of geography.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG788Q **Selected Topics in Geography; Studying Social Networks: Theory, Methods, and Analysis**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

This course is intended as a survey of the theory and methods pertaining to social networks. Class time will be devoted to learning principles, theoretical perspectives, and appropriate software packages (mainly those in R) for designing a study for gathering network data, and analyzing those data. The readings are a combination of introductory-level material, classic, scholarly readings in the field, and empirical studies that apply social network analytic techniques to topics relevant to the social sciences as a whole. The first weeks are structured around readings, group discussion, and lab (e.g. going through example scripts in R). The last few weeks are geared more towards students individual projects, culminating in small presentations (similar to conference paper presentations) on a topic of your choosing, and a final paper/project, again shaped according to your own needs/interests.

0101	Christina Prell	Seats (Total: 25)
	W 4:00pm - 6:30pm	LEF 1158

GEOG788Z **Selected Topics in Geography; Topics in Data Visualization with Processing and Applications in R**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

0101	Giovanni Baiocchi	Seats (Total: 25)
	Th 5:00pm - 7:30pm	LEF 1171

GEOG789 **Independent Readings**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

Credits: 3 Grading Method: Regular, Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department for information to register for this course.

GEOG797 **Professional Project**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG795; and must have completed or be concurrently enrolled in ENCE662. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program.

Data and materials can originate from an internship (internal or external) or from relevant work experience with current employer. Under direction of faculty advisor, students will prepare a project report containing explanation of the requirements for the work, technical account of the activities undertaken, including literature review, description of methods and approaches taken, a critical discussion of results, along with conclusions and recommendations developed from the project. Final project will consist of a full-fledged GIS application that is up and running and can be tested, providing potential employers with a portfolio demonstrating student's ability to manage and develop a GIS application in real world situations.

Contact department for information to register for this course.

GEOG798 **Selected Topics in Geography: Seminar Series; Departmental Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Readings and discussions on selected topics in the field of geography.

0101	Rachel Berndtson	Seats (Total: 50)
	Th 3:30pm - 5:00pm	LEF 1158

GEOG799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEOL Geology Fall 2017

GEOL100 **Physical Geology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

0101	Tracey Centorbi MWF 1:00pm - 1:50pm	Seats (Total: 99) ATL 2324	
0201	William McDonough TuTh 3:30pm - 4:45pm	Seats (Total: 99) ATL 2324	

GEOL104 **Dinosaurs: A Natural History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Dinosaurs, their evolution, and our understanding of their fossil record. Students will examine the geologic record and the tools used by paleontologists to determine: geologic ages and ancient environments; evolutionary history and extinctions; dinosaurian biology and behavior; and their survival as birds. Mechanisms of global change ranging from plate tectonics to asteroid impact will be discussed.

0101	Thomas Holtz MWF 10:00am - 10:50am	Seats (Total: 60) PLS 1130	

GEOL110 **Physical Geology Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

Students must pay a $50.00 laboratory materials fee.

0101	Rebecca Butcher, Alan Kaufman Th 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106	Lab
0102	Alan Kaufman, Erin Cunningham M 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106	Lab

0103	Alan Kaufman, Rebecca Butcher Tu 12:00pm - 3:00pm	Seats (Total: 24) GEO 2106	Lab
0104	Alan Kaufman, Erin Cunningham Tu 3:00pm - 6:00pm	Seats (Total: 24) GEO 2106	Lab
0106	Jonathan Guandique, Alan Kaufman W 9:00am - 12:00pm	Seats (Total: 24) GEO 2106	Lab
0107	Alan Kaufman, Robert Nicklas W 3:00pm - 6:00pm	Seats (Total: 24) GEO 2106	Lab
0109	Jonathan Guandique, Alan Kaufman Tu 9:00am - 12:00pm	Seats (Total: 24) GEO 2106	Lab

GEOL120 **Environmental Geology**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNL (if taken with GEOL110), DSNS

Credit only granted for: GEOL100 or GEOL120.

A review of geologic factors underlying many environmental problems and the interactions between population and physical environment: geologic hazards, land-use planning, conservation, mineral resources, waste disposal, land reclamation, and the geologic aspects of health and disease. The course is aimed at lower division students in education and liberal arts, and should be useful to any student concerned with geologic perspectives of environmental problems.

0101	Tracey Centorbi TuTh 12:30pm - 1:45pm M 3:00pm - 3:50pm	Seats (Total: 20) TYD 2106 PLS 1172	Discussion
0102	Tracey Centorbi TuTh 12:30pm - 1:45pm M 4:00pm - 4:50pm	Seats (Total: 20) TYD 2106 PLS 1172	Discussion
0103	Tracey Centorbi TuTh 12:30pm - 1:45pm M 5:00pm - 5:50pm	Seats (Total: 20) TYD 2106 PLS 1172	Discussion

FC01	Tracey Centorbi TuTh 4:30pm - 5:45pm F 9:00am - 9:50am	Seats (Total: 20) ASY 3203 CSI 3118	Discussion
	Restricted to students in Freshmen Connection.		
FC02	Tracey Centorbi TuTh 4:30pm - 5:45pm F 10:00am - 10:50am	Seats (Total: 20) ASY 3203 CSI 3118	Discussion
	Restricted to students in Freshmen Connection.		

GEOL123 **Causes and Consequences of Global Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Also offered as: AOSC123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

0101	Michael Gerst, Melissa Kenney MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 32) ATL 2416 ATL 2416	Discussion

GEOL124 **Evolution of Life and Environment on Planet Earth**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

An exploration of how life has shaped Earth's physical environments, both in the contemporary Earth and over the long course of Earth history. Topics range from evidence for the origin and diversification of life and its impact on Earth environments to the mind-set and methods of the scientists who interpret it, and what those methods tell us about future interactions between life and the environment, both on Earth and in the Solar System.

Restricted to students in the new Carillon Once and Future Planet living learning community.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Alan Kaufman TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 15) CHM 1224 PLS 1162	Discussion

0102	Alan Kaufman TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 15) CHM 1224 PLS 1162	Discussion
0103	Alan Kaufman TuTh 11:00am - 12:15pm W 5:00pm - 5:50pm	Seats (Total: 15) CHM 1224 PLS 1162	Discussion

GEOL200 **Earth's Fury: Earthquakes, Volcanoes, and Tsunami**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Earthquakes, volcanic eruptions, and tsunami frequently remind us of th dangers associated with living on a constantly changing planet. How do people prepare for these rare but dramatic events? Student will study the science behind earthquakes and volcanoes, how it guides monitoring, forecasting, prevention, and response, and the cultural and ethical aspects of these events.

0101	Laurent Montesi TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0102	Laurent Montesi TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0103	Laurent Montesi TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) ASY 2203 PLS 1168	Discussion
0104	Laurent Montesi TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion
0105	Laurent Montesi TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion
0106	Laurent Montesi TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) ASY 2203 PLS 1164	Discussion

GEOL212 **Planetary Geology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Credit only granted for: ASTR330 or GEOL212.

An examination of the geologic and geochemical processes at work in the solar system from the perspectives supplied by space age exploration of the planets and other solar system bodies.

0101	John Merck	Seats (Total: 24)	
	MWF 9:00am - 9:50am	PLS 1115	

GEOL342 **Sedimentation and Stratigraphy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL120 or GEOL100; and GEOL110; and GEOL322. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Permission of instructor is required of non-degree-seeking students.

Description, origin, and distribution of sediments and sedimentary rocks. Two mandatory weekend field trips.

0101	John Merck	Seats (Total: 15)	
	MWF 1:00pm - 1:50pm	PLS 1172	
	Tu 3:30pm - 6:30pm	GEO 2107	Lab

GEOL375 **Introduction to the Blue Ocean**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140. Recommended: MATH141, PHYS161, or PHYS171. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC375. Credit only granted for: AOSC375, GEOL375 or METO375.

Introduction to physical, chemical, and biological properties of the ocean. Role of the ocean in climate as a component of the Earth system. El Nino and the ocean, impact of global warming on the ocean and marine habitats including fisheries.

0101	Raghu Murtugudde	Seats (Total: 23)	
	TuTh 11:00am - 12:15pm	ATL 1109	

GEOL393 **Geology Senior Thesis I: Proposal**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

0101	Philip Piccoli	Seats (Total: 10)
	W 4:00pm - 6:00pm	PLS 1111
	Contact instructor or department for details.	

GEOL394 **Geology Senior Thesis II: Research**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

Contact department for information to register for this course.

GEOL423 **Optical Mineralogy**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL100 or GEOL120; and GEOL110; and GEOL322. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

The optical behavior of crystals with emphasis on the theory and application of the petrographic microscope.

0101	Sarah Penniston-Dorland	Seats (Total: 17)	
	MWF 9:00am - 9:50am	HBK 0109	
	W 10:00am - 1:00pm	GEO 2117	Lab

GEOL444 **Low Temperature Geochemistry**

(Perm req)

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Non-degree-seeking students require the permission of the instructor.

Basic chemical principles, thermodynamics, and kinetics of low-temperature inorganic and organic geochemical reactions in a wide range of surface environments. These geochemical tools will be used to provide a context for understanding elemental cycling and climate change. Laboratories will include problem sets as well as wet chemical and mass spectrometric techniques used in low temperature geochemistry.

0101	James Farquhar	Seats (Total: 12)	
	TuTh 8:00am - 9:15am	PLS 1158	
	M 3:00pm - 6:00pm	CHM 1330	Lab

GEOL445 **High Temperature Geochemistry**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

Review of chemical principles and their use in understanding processes of Earth, and solar system formation and differentiation. Topics include nucleosynthesis and cosmochemical abundances of elements, bonding and element partitioning, equilibrium thermodynamics and phase stabilities, radiogenic isotopes and geochronology, kinetics, and diffusion.

0101	Ricardo Arevalo	Seats (Total: 20)	
	TuTh 12:30pm - 1:45pm	PLS 1172	
	Th 8:00am - 11:00am	HBK 0115	Lab

GEOL446 **Geophysics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141, MATH141, and MATH140; and (GEOL100 or GEOL120). Restriction: Non-degree-seeking students require the permission of the instructor.

An introduction to modern geophysics. Topics include: global plate tectonics, plate motion, triple junctions, geomagnetism, earthquakes and faulting, reflection and refraction seismology, gravity and isostasy, heat flow and mantle dynamics, deep interior of the Earth, geophysical observations and measurements.

0101	Wenlu Zhu	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	PLS 1162

GEOL447 **Observational Geophysics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140 and MATH141; and (PHYS141, PHYS161, or PHYS171).

An introduction to practical signal processing, data analysis, and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	PLS 1129

GEOL451 **Groundwater**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL110 and MATH140; and (GEOL120 or GEOL100); and (CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103). Or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

An introduction to the basic geologic parameters associated with the hydrologic cycle. Problems in the accumulation, distribution, and movement of groundwater will be analyzed.

0101	Wenlu Zhu	Seats (Total: 42)
	TuTh 2:00pm - 3:15pm	SPH 1302

GEOL452 **Watershed and Wetland Hydrology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

Physical processes by which water moves in watershed and wetland systems. Topics include: precipitation, infiltration, flow in the unsaturated zone, streamflow generation processes, and groundwater flow.

0101	Karen Prestegaard	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	PLS 1130

GEOL453 **Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH120 or MATH140; or must have completed MATH220. And (CHEM131 or CHEM135); and (CHEM132 or CHEM136); and (GEOL100, GEOL120, or ENST200). Restriction: Junior standing or higher; and permission of instructor is required of non-degree-seeking students. Credit only granted for: GEOL453 or GEOL489L. Formerly: GEOL489L.

Overview of ecosystem functions across biomes/geologic settings, and considerations and tradeoffs in ecosystem restoration strategies. Specific case studies and discussions will be aimed at understanding how structure can influence biophysical and biogeochemical processes supporting ecosystems, and then describes how rates, timing, and location of physical, chemical, and ecosystem processes can be altered by different restoration strategies to enhance ecosystem services.

Also offered as MEES698E and GEOL789L.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

GEOL460 **Field Geophysics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140, MATH141, and GEOL446; and (PHYS141, PHYS161, or PHYS171). Restriction: Non-degree-seeking students require the permission of the instructor.

Students will become familiar with geophysical instrumentation used for both scientific and industrial applications. Students will be given an introduction to the use of geophysical instrumentation for data collection, processing, and analysis, design of field experiments for investigating field geophysical problems, and an introduction to the theory of instrument design and use. Instruments that will be covered include (but are not limited to): broadband seismometers, geophones, ground-penetrating radar, magnetotellurics, and Global Positioning Satellites.

0101	Nicholas Schmerr	Seats (Total: 15)
	M 10:00am - 1:50pm	CHE 2116

GEOL488 **Geology Colloquium**

Credits: 1 Grading Method: Sat-Fail

Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.

0101	Nicholas Schmerr	Seats (Total: 30)
	F 3:00pm - 4:30pm	PLS 1130

GEOL489G **Special Topics; Geoscientific Modeling**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recent advances in geology.

0101	Michael Evans	Seats (Total: 10)
	MWF 10:00am - 10:50am	PLS 1176

GEOL499 **Special Problems in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Prerequisites: GEOL100 or GEO120, GEOL110, GEOL102; or equivalent; and permission of department. In addition, non-degree-seeking students require the permission of the instructor. Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL647 **Observational Geophysics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH140, MATH141, and PHYS141; and (PHYS161 or PHYS171). Credit only granted for: GEOL789O or GEOL647. Formerly: GEOL789O.

Introduces graduate students to instrument design and performance, signal processing, data analysis and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	PLS 1129

GEOL652 **Advanced Watershed and Wetland Hydrology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: GEOL452; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Physical and chemical processes in watershed and wetland systems: with an emphasis on redox reactions.

0101	Karen Prestegaard TuTh 3:30pm - 4:45pm	Seats (Total: 10) PLS 1130

GEOL670 **Physical Oceanography**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC420, AOSC670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, an salt transport, geochemical tracers. Western boundary currents, maintenance of the termocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	James Carton MW 3:15pm - 4:30pm	Seats (Total: 11) ATL 2416
AM01	James Carton MW 3:15pm - 4:30pm	Seats (Total: 1) ATL 2416

GEOL680 **Geodynamics**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department; or (MATH241, MATH462, and GEOL446). Recommended: Familiarity with MATLAB or MATHEMATICA. Credit only granted for: GEOL680 or GEOL789J. Formerly: GEOL789J.

The mechanics and dynamics of the Earth's interior and their applications to problems of Geophysics. This course considers several rheological descriptions of Earth materials (brittle, elastic, linear and nonlinear fluids, and viscoelastic) and emphasizes analytical solutions to simplified problem.

0101	Laurent Montesi TuTh 12:30pm - 1:45pm	Seats (Total: 10) PLS 1168

GEOL688 **Geology Colloquium**

Credits: 1 Grading Method: Sat-Fail

Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.

0101	Nicholas Schmerr	Seats (Total: 30)
	F 3:00pm - 4:30pm	PLS 1130

GEOL789G **Recent Advances in Geology; GEOSCIENTIFIC MODELING**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

0101	Michael Evans	Seats (Total: 10)
	MWF 10:00am - 10:50am	PLS 1176

GEOL789K **Recent Advances in Geology; Current Topics in Meteoritics and Cosmochemistry**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

Seminar course designed to introduce students to current theories behind the origin and evolution of our solar system. General topics to be covered include current theories for the origin of the solar system, the age of the solar system, and the relative ages of the assemblage of its parts. Two classes will be devoted to examining extraterrestrial materials (lunar and meteoritic).

0101	Richard Walker	Seats (Total: 15)
	W 1:00pm - 3:50pm	EGR 3102

GEOL789L **Recent Advances in Geology; Special Topics in Marine-Estuarine-Environmental Sciences: Principles and Practices of Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

Also offered as MEES698E and GEOL453. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

GEOL798 **Seminar in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GERM Germanic Studies Fall 2017

GERM103 **Intensive Elementary German**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL01	Wendy Timmons MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SQH 2120 ONLINE
BL02	James Porter MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 0118 ONLINE

GERM149Z **Germanic Languages - Elementary II; Elementary Yiddish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of GERM148. May be repeated in a different language. Subtitle will reflect the language.

Also offered as JWST282. Credit granted for JWST282 or GERM149Z.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 15) SQH 1125

GERM203 **Intensive Intermediate German**

Credits: 4 Grading Method: Regular, Audit CORE: HO

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL01	Matthew Kelly MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE
BL02	Raleigh Joyner MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 1224 ONLINE

GERM204 **German Grammar Review**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: GERM203; or Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of German.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Regina Ianozi	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 1120

GERM255 **Once Upon a Time: Fairy Tales of the Brothers Grimm**

Credits: 3 Grading Method: Regular General Education: DSHU

Credit only granted for: GERM255 or GERM289G. Formerly: GERM289G. Additional information: Course is taught in English.

A critical examination of how fairy tales and folklore pervade and influence diverse facets of Western culture, ranging from issues of politics and national identity, ethics and morality, violence and fear, education and pedagogy, to gender and sexuality in the establishment and regulation of social norms. Taking the German tales collected by Jacob and Wilhelm Grimm as its focal point, the magical and often terrifying world of fairy tales within the German, European, and American cultural traditions from Romanticism to today will be explored.

0101	Julie Koser	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 2206

GERM269A **Special Topics in Study Abroad II; Elementary German I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM269B **Special Topics in Study Abroad II; Elementary German II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM301 **Conversation and Composition I: The German-Speaking World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

0101	Maria Sitzler-Sawicki	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 1103

GERM302 **Conversation and Composition II: Current Topics in German-Speaking Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

0101	Maria Sitzler-Sawicki	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 2122

GERM319G **Selected Topics in Germanic Language Studies; Seminar in German Language**

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

GERM322 **Highlights of German Literature and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322H.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 3203

GERM322H **Highlights of German Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 3203

GERM369C **Special Topics in Study Abroad III; German Composition I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369D **Special Topics in Study Abroad III; German Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369K **Special Topics in Study Abroad III; Introduction to German Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369M **Special Topics in Study Abroad III; Europeans and the Middle East: War & Peace, Culture and Exchange, 1798-Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369P **Special Topics in Study Abroad III; Pop Culture: European-American Trends**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

GERM389F **Topics in Germanic Culture; Berlin: History, Memory, Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM389G **Topics in Germanic Culture; German American Cultural Contrasts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM397H **Honors Reading (Independent Study)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Supervised reading to be taken normally only by students admitted into honors program.

Contact department for information to register for this course.

GERM399F **Selected Topics in Germanic Studies; The Human Condition and the Totalitarian Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GERM401 **Advanced Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Development of fluency in spoken German to achieve advanced level.

0101	Peter Beicken	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 0103

GERM411 **German for International Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced skills in German for international business, including understanding and writing correspondence, reports, graphics, ads, etc., according to current German commercial style.

Contact department for information to register for this course.

GERM439J **Selected Topics in German Literature; Introduction to the History of the German Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

Contact department for information to register for this course.

GERM449I **Selected Topics in Germanic Studies; Feminist Film and Media Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of a linguistic, literary or cultural topic in Yiddish, Netherlandic, or Scandinavian studies.

Also offered as FILM469I and GERM689I. Credit granted for FILM469I, GERM449I, or GERM689I. Taught in English

0101	Hester Baer	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	HBK 0302H
	Th 2:00pm - 3:15pm	HBK 0302H

GERM489Y **Social Issues in German Culture; Modern German Drama**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course examining the cultural constructions and representations of important social and political issues, investigating their connection to German values and institutions. Taught in German.

Also offered as GERM689Y. Credit granted for GERM489Y or GERM689Y.

0101	Peter Beicken	Seats (Total: 15)
	Th 4:30pm - 7:15pm	JMZ 3205

GERM499 **Directed Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM689E **Special Topics - M.A. Level; Introduction to German Studies**

Credits: 3

Grading Method: Regular, Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

0101	Elke Frederiksen	Seats (Total: 15)
	W 4:30pm - 7:15pm	JMZ 2120

GERM689I **Special Topics - M.A. Level; Feminist Film and Media Theory**

Credits: 3

Grading Method: Regular, Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

Also offered as GERM449I and FILM469I. Credit granted for FILM469I, GERM449I, or GERM689I. Taught in English.

0101	Hester Baer	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	HBK 0302H
	Th 2:00pm - 3:15pm	HBK 0302H

GERM689Y **Special Topics - M.A. Level; Modern German Drama**

Credits: 3

Grading Method: Regular, Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

Also offered as GERM489Y. Credit granted for GERM489Y or GERM689Y.

0101	Peter Beicken	Seats (Total: 15)
	Th 4:30pm - 7:15pm	JMZ 3205

GERM798 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM888 **Doctoral Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GREK Greek Fall 2017

GREK101 **Elementary Ancient Greek I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Restriction: A student who has had two units of Greek in high school may register for GREK101 for purposes of review but not for credit.

Study of basic grammar, development of reading facility, and introduction to Athenian life and culture in the fifth century B.C.

Classical and New Testament Greek.

0101	Madeleine Goh	Seats (Total: 20)
	MWF 10:00am - 10:50am	HBK 1112
	M 9:00am - 9:50am	HBK 1112

GREK111 **Elementary Modern Greek I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not be a native speaker of Greek. Credit only granted for: FOLA108G or GREK111. Formerly: FOLA108G.

An introduction to the language and culture of modern Greece. Students begin to acquire the basic tools of the language and to communicate, in simple everyday situations. This is the first of our two-semester sequence in Elementary Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	KEY 0119

GREK201 **Intermediate Ancient Greek**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK102; or students who have taken courses with comparable content may contact the department.

Advancing beyond the basic skills developed in GREK 101 and GREK 102; review of selected grammatical concepts; continuous reading of passages from Greek literature.

0101	Madeleine Goh	Seats (Total: 10)
	MWF 2:00pm - 2:50pm	SQH 1125
	M 1:00pm - 1:50pm	SQH 1125

GREK211 **Intermediate Modern Greek I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK112; or permission of instructor. Credit only granted for: FOLA118G or GREK211. Formerly: FOLA118G.

A continuation of the study of basic structures and the development of fluency in functional, spoken and written communication. This is the first of our two-semester sequence in Intermediate Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 15)
	MWF 10:00am - 10:50am	MMH 1218

GREK398 **Advanced Modern Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Develops advanced communication skills in the modern Greek language: speaking, listening, reading, and writing.

0101	Polyvia Parara	Seats (Total: 10)
	MWF 11:00am - 11:50am	MMH 1218

GREK411 **Modern Greek Literature and History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must have earned a grade of C- or better in a 300-level Modern Greek course. Restriction: Permission of instructor. Credit only granted for: GREK311 or GREK411. Formerly: GREK311.

Students will study historical and political events in Greece during the 19th and 20th centuries through the viewpoint of the man of letters. Poetry, prose, plays, and essays reflect national emancipation, social reconstruction, and political struggles. Readings and discussion are in Modern Greek.

0101	Polyvia Parara	Seats (Total: 5)
	W 2:00pm - 4:30pm	MMH 1218

GREK488B **Greek Readings; Intermediate Ancient Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Gregory Bucher	Seats (Total: 5)
	MWF 2:00pm - 2:50pm	SQH 1125
	M 1:00pm - 1:50pm	SQH 1125

GREK488T **Greek Readings; Tragedy and Comedy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Francisco Barrenechea Tu 5:00pm - 7:40pm	Seats (Total: 5) MMH 1218

GREK499 **Independent Study in Greek Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GREK688T **Special Topics in Greek Literature; Tragedy and Comedy**

Credits: 3 Grading Method: Regular, Audit

0101	Francisco Barrenechea Tu 5:00pm - 7:40pm	Seats (Total: 8) MMH 1218

GREK699 **Independent Study in Greek Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GREK799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GVPT Government and Politics Fall 2017

GVPT101 **Introduction to Political Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

A study of the basic principles and concepts of political science.

Contact department for information to register for this course.

GVPT105S **Introduction to Political Ethics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Restriction: Must be in the College Park Scholars program; and must be in International Studies program or Public Leadership program.

An examination of major theories of political life and politics as they pertain to international politics, conflict, and culture. Emphasis will be given to theories of ethics and morality that pertain to international studies, such as human rights.

0101	James Glass MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0102	James Glass MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0103	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0117 TYD 0101	 Discussion
0104	James Glass MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0117 TYD 0102	 Discussion

GVPT158A **Special Topics in Study Abroad I; The European Union**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT170 **American Government**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

A comprehensive study of national government in the United States.

0101	Patrick Wohlfarth MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 TYD 0101	 Discussion

0102	Patrick Wohlfarth MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 TYD 1102	Discussion
0103	Patrick Wohlfarth MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 1101	Discussion
0104	Patrick Wohlfarth MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 1132	Discussion
0105	Patrick Wohlfarth MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 JMZ 0125	Discussion
0106	Patrick Wohlfarth MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 2102	Discussion
0107	Patrick Wohlfarth MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 25) LEF 2205 KEY 0126	Discussion
0108	Patrick Wohlfarth MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 2109	Discussion
0109	Patrick Wohlfarth MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 0101	Discussion
FC01	Kelsey Hinchliffe MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 45) ASY 2309	

GVPT200 **International Political Relations**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVUP

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

0101	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
0102	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 1132	Discussion
0103	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0104	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
0105	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 1108	Discussion
0106	Todd Allee MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0107	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0108	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 1132	Discussion
0109	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 SKN 1112	Discussion

FC01	Jennifer Wallace TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 50) TYD 1101	

GVPT201 **Scope and Methods for Political Science Research**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.

An introduction to empirical research in political science.

0101	Sarah Croco MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) SHM 2102 TYD 2110	Discussion
0102	Sarah Croco MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 TYD 0111	Discussion
0103	Sarah Croco MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) SHM 2102 TYD 1114	Discussion
0104	Sarah Croco MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 TYD 0111	Discussion
0105	Sarah Croco MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 TYD 0101	Discussion
0106	Sarah Croco MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 SKN 1115	Discussion
0201	Sarah Croco MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 2106 BPS 1232	Discussion

0202	Sarah Croco MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 2106 BPS 1238	Discussion
0203	Sarah Croco MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 2106 TYD 1118	Discussion

GVPT205S **Special Topics in International Ethics, Conflict, and Immigration**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

Prerequisite: GVPT105. Recommended: GVPT241. Restriction: Must be in College Park Scholars program; and must be in GVPT international Studies program.

An examination of issues in international ethics, conflict generated at the international level, and problems in immigration policy and law, including theories of rights and immigration, and ideological sources of international violence.

0101	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) SQH 1120 TYD 1118	Discussion
0102	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) SQH 1120 JMZ 1224	Discussion
0103	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) SQH 1120 TYD 2109	Discussion
0104	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 26) SQH 1120 JMZ 3120	Discussion

GVPT217 **Mock Trial**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: MLAW217. Credit only granted for: MLAW217, GVPT217, or GVPT319A. Formerly: GVPT319A.

Experience the excitement and reward of arguing, and perhaps winning your client's case in court. Mock Trial is designed for students who are interested in learning practical techniques for shaping the evidence, using the law, and exploiting the courtroom to create a coherent and convincing case theory

Click here for course permission.

0101	William Mundy W 6:30pm - 9:15pm	Seats (Total: 30) TYD 2106	

GVPT221 **Introduction to Formal Theories of Political Behavior and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170.

An introduction to the theories of rational choice including theories of negotiation and bargaining, elections and voting in democracies, community organizing and the contrast between the roles and performances of government and market.

0101	Piotr Swistak Th 2:00pm - 4:45pm	Seats (Total: 30) TYD 0101	

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

0101	Brandon Ives MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 22) LEF 2205 LEF 1222	 Discussion
0102	Brandon Ives MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 22) LEF 2205 KNI 1103	 Discussion
0103	Brandon Ives MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 22) LEF 2205 KNI 1103	 Discussion

0104	Brandon Ives MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 22) LEF 2205 LEF 1171	Discussion
0105	Brandon Ives MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 22) LEF 2205 TYD 1102	Discussion
0106	Brandon Ives MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 22) LEF 2205 LEF 1221	Discussion
0107	Brandon Ives MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 22) LEF 2205 LEF 1171	Discussion
0108	Brandon Ives MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 22) LEF 2205 TYD 1114	Discussion
FC01	Neil Lund TuTh 7:30pm - 8:45pm	Seats (Total: 40) TYD 2108	

GVPT258B **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258C **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258D **Introduction to Political Science Topics in Study Abroad; Danish Politics and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258E **Introduction to Political Science Topics in Study Abroad; Government and Politics in Spain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258F **Introduction to Political Science Topics in Study Abroad; European Union Law and Economic Integration**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258I **Introduction to Political Science Topics in Study Abroad; Government and Politics in Italy and Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258N **Introduction to Political Science Topics in Study Abroad; Arms Control in the Nuclear Realm**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258P **Introduction to Political Science Topics in Study Abroad; Sustainable Development: Environmental, Political and Social Issues**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258R **Introduction to Political Science Topics in Study Abroad; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258T **Introduction to Political Science Topics in Study Abroad; Terrorism and Political Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT273 **Introduction to Environmental Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An overview of modern environmental philosophy, politics, and policy, exploring environmental politics in the US by way of comparison with other developed and developing countries.

FC01	Stephen Arves	Seats (Total: 40)
	MW 4:30pm - 5:45pm	BPS 1238
	Restricted to students in Freshmen Connection.	

GVPT280 **The Study of Comparative Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT201.

An introduction to the comparative study of politics and governance, including the analytical concepts for studies of politics and a survey of the major types of regimes, including democratic and authoritarian/communist regimes.

Contact department for information to register for this course.

GVPT289B **Special Topics in Government and Politics; Globalization**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289L **Special Topics in Government and Politics; Religions, Beliefs, and World Affairs**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	John McCauley MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) JMZ 0220 TYD 1108	Discussion
0102	John McCauley MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) JMZ 0220 TYD 2102	Discussion
0103	John McCauley MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 LEF 1222	Discussion
0104	John McCauley MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) JMZ 0220 TYD 0102	Discussion
0105	John McCauley MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) JMZ 0220 TYD 0102	Discussion
0106	John McCauley MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 TYD 1132	Discussion

GVPT289O **Special Topics in Government and Politics; Racial and Ethnic Politics in the Obama Era**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	Antoine Banks TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1224 BPS 0283	Discussion
0102	Antoine Banks TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ESJ 1224 TWS 1107	Discussion

0103	Antoine Banks TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 1224 TYD 2109	Discussion
0104	Antoine Banks TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1224 ASY 3217	Discussion
0105	Antoine Banks TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ESJ 1224 BPS 1236	Discussion
0106	Antoine Banks TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 1224 LEF 1221	Discussion

GVPT289X **Special Topics in Government and Politics; Introduction to European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT306 **Global Environmental Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

0101	Jennifer Hadden TuTh 12:30pm - 1:45pm	Seats (Total: 30) TYD 1102	

GVPT309H **Topics in International Relations; British Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309L **Topics in International Relations; Israel & Arab Spring**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Also offered as ISRL329E. Credit granted for ISRL329E or GVPT309L. This course will explore and analyze the political, diplomatic, and strategic effects of the Arab Spring and its continuing after effects on the State of Israel, using that as a lens to study the contemporary Middle East. It starts with a preliminary study of Israel's foreign policy and then examines the effects of the Arab Spring on its domestic politics: relations with other regional actors, the Palestinians, and the United States; and Israel's strategy towards non-state actors such as Hamas, Hezbollah and ISIS.

0101	Moran Stern	Seats (Total: 40)
	W 4:00pm - 6:30pm	TYD 2111

GVPT319C **Topics in Social Advocacy; Careers in the Social Sector**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Reading, research and discussion of variety of topics related to social advocacy.

An overview of careers in the social sector ecosystem (International Organizations, Entrepreneurship, Federal Government, etc.). We will review common jobs, career tracks, and how to enter and move between different parts of the sector.

0101	Sarah Wolek	Seats (Total: 30)
	Meets August 28, 2017 - October 25, 2017	
	W 11:00am - 12:25pm	TYD 1108

GVPT354 **International Development and Conflict Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and permission of BSOS-Government & Politics department; and sophomore standing or higher. Additional information: Students are expected to take the course during the Fall semester after admission to the program.

Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.

0101	Jacob Lewis W 2:00pm - 3:40pm F 9:00am - 9:50am	Seats (Total: 25) JMZ 0220 KEY 0126	 Discussion
0102	Jacob Lewis W 2:00pm - 3:40pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 KEY 1117	 Discussion
0103	Jacob Lewis W 2:00pm - 3:40pm F 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0220 TYD 2111	 Discussion

GVPT356 **Capstone in International Development**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.

Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international development and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.

0101	Matthew Regan Tu 2:00pm - 4:45pm	Seats (Total: 40) TYD 2108

GVPT358A **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358D **Study Abroad Seminar in Political Science; Politics and Economy of Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358F **Study Abroad Seminar in Political Science; Government and Politics in France**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358G **Study Abroad Seminar in Political Science; History and Politics of Modern Italy: The 20th Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358P **Study Abroad Seminar in Political Science; Political Rhetoric: Blogs, Speeches, and Spin**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358R **Study Abroad Seminar in Political Science; Religion and Politics in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT376 **Applied Field Research in Government and Politics**

(Perm req)

Credits: 3-6 Grading Method: Sat-Fail

Prerequisite: GVPT170. Corequisite: GVPT377.

Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic advisor, students conduct a major research project of mutual interest to the student and his or her host agency in the field of government and politics.

Contact department for information to register for this course.

GVPT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Permission of Director of Undergraduate Studies required.

Contact department for information to register for this course.

GVPT388B **Topical Investigations; Innovation in the Public Sector**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email bsos-ugdean@umd.edu with your name, UID and a brief statement of why this course is of interest to you.

0101	Samantha O'Neil, Kenneth Ulman	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

GVPT388M **Topical Investigations; Mock Trial**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

0101	William Mundy	Seats (Total: 40)
	W 6:30pm - 9:15pm	TYD 2108

GVPT388W **Topical Investigations; Experiential Learning: Maryland, Public Policy, and Beyond**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Four required in-class meetings on the following Tuesdays from 6:30pm-9:15pm: September 5th, October 24th, November 14th and December 5th. All other class meeting will be online.

0101	Casey Burgat	Seats (Total: 40)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

GVPT389 **Experiential Learning II**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Junior standing.

Contact department for information to register for this course.

GVPT390 **Game Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed ECON414. Credit only granted for: GVPT399A, GVPT390, CMSC474 or ECON414. Formerly: GVPT399A.

Introduction to game theory with applications to political science, economics and sociology. Topics include preference theory, expected utility theory, Nash equilibria, subgame perfection, repeated games, folk theorems, and evolutionary stability.

0101	Piotr Swistak	Seats (Total: 30)	
	Tu 2:00pm - 4:45pm	TYD 0101	

GVPT392 **Introduction to Geographic Information Systems for Social Science Research**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GVPT392, GVPT429A, or GVPT729D. Formerly: GVPT429A, GVPT729D.

Introduction to the use of Geographic Information Systems for conducting research in the social sciences. Overview of spatially embedded nature of many social science phenomena and content of theories common to spatial thinking. Students will obtain hands-on experience with various GIS tools and methods most frequently employed by social scientists.

Recommended: At least one course in statistics. Note: Students are required to bring a laptop to every class meeting.

0101	James Gimpel	Seats (Total: 45)	
	M 9:00am - 10:30am	TYD 2102	
	W 9:00am - 10:30am	TYD 2102	Discussion

GVPT396 **Introduction to Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Government & Politics Honors Program; and must have permission of the Government & Politics Honors Program.

A required course for all honors students designed to emphasize library research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project.

Contact department for information to register for this course.

GVPT397 **Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: GVPT396. Restriction: Must be in Government & Politics Honors Program.

Individual reading and research. Preparation of an original paper.

Contact department for information to register for this course.

GVPT399C **Seminar in Government and Politics; The Case of Catalonia**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399D **Seminar in Government and Politics; Society and Politics in Contemporary Spain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399I **Seminar in Government and Politics; Globilization**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399L **Seminar in Government and Politics; British Politics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399N **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399X **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT406 **International Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher. Or must be in Government & Politics: International Relations program; and junior standing or higher.

A basic introduction to the full range of international organizations that have come into being over the past century and one-half, including those that aspire to be universal or global, those with a geopolitical or regional focus, and those that address specific structural or functional areas of human endeavor or issue areas.

0101	Todd Allee	Seats (Total: 30)
	W 2:00pm - 4:45pm	TYD 0102

GVPT409G **Seminar in International Relations and World Politics; Corporations and the Global Political Economy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200. Restriction: Must be in Government and Politics program. The rise of global corporations is one of the distinctive features of globalization. What are the origins of the modern global corporation? What is their impact on politics, society and the economy? This course seeks to convey a sophisticated understanding that goes beyond bumper stickers maligning corporations or celebrating unfettered capitalism, to deepen the students understanding of multinationals as complex and powerful organizations, and to learn a variety of perspectives on multinational corporate activity.

0101	Gonzalo Paz	Seats (Total: 30)
	MW 3:00pm - 4:15pm	TYD 2109

GVPT409H **Seminar in International Relations and World Politics; China and the World**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT100. Restriction: Must be in the Government and Politics Honors Program.

0101	Scott Kastner, Margaret Pearson W 2:00pm - 4:45pm	Seats (Total: 20) TYD 0111

GVPT409P **Seminar in International Relations and World Politics; Conflict in the International System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200. Restriction: Must be in Government and Politics program.

0101	David Cunningham TuTh 11:00am - 12:15pm	Seats (Total: 30) TYD 1102

GVPT409V **Seminar in International Relations and World Politics; Game Theory And International Security**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT409W **Seminar in International Relations and World Politics; Southeast Asia in Contemporary Global Politics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

0101	Jennifer Wallace TuTh 2:00pm - 3:15pm	Seats (Total: 30) ARC 1105

GVPT417 **Seminar in Advanced Topics in Environmental Policy Analysis**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT273. Restriction: Must be in one of the following programs (Government & Politics; Environmental Sci&Policy-Env Politics & Policy). Credit only granted for: GVPT419B or GVPT417. Formerly: GVPT419B.

A series of critical tools and methods used to analyze environmental policy. This class should be of interest to students who are either considering a career or graduate studies in environmental protection.

0101	Isabella Alcaniz	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	SQH 1117

GVPT419A **Seminar in Public Policy; Public Policy Process in the US**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public policy. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government and Politics program.

0101	Frances Lee	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1102

GVPT420 **The Logic and Practice of Measuring Political Behavior**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT201. Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program.

Introduction to concepts and practices used for measuring political behavior. Political analysis is an increasingly quantitative field, It is crucial for students of political behavior to learn how to define concepts in concrete ways, examine different methods of measuring concepts, learn how to test the quality of chosen measures, learn how to construct richer measures out of multiple questions, and finally how to examine the relationship between multiple measures of similar concepts. Common pitfalls, errors, bias, and ethics will be examined along the way.

0101	Lilliana Mason	Seats (Total: 30)
	W 2:00pm - 4:45pm	TYD 0101

GVPT423 **Elections and Electoral Behavior**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program.

An examination of various topics relating to elections; the focus includes the legal structure under which elections are conducted, the selection and nomination process, the conduct of election campaigns, and patterns of political participation and voting choice in different types of elections.

0101	James Gimpel M 2:00pm - 4:45pm	Seats (Total: 30) TYD 0101

GVPT431 Introduction to Constitutional Law

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170 and GVPT331. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher.

A systematic inquiry into the general principles of the American constitutional system, with special reference to the role of the judiciary in the interpretation and enforcement of the federal constitution.

0101	Michael Spivey MW 1:00pm - 2:15pm	Seats (Total: 75) TYD 2109

GVPT432 Civil Rights and the Constitution

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170 and GVPT331. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations).

A study of civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and the rights of defendants.

SG91	Samantha Davis Tu 3:30pm - 6:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225

GVPT439C Seminar in Public Law; Current Issues in the Supreme Court

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public law. Both substantiv issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program. Recommended prerequisites: GVPT431 and GVPT432.

0101	Michael Spivey	Seats (Total: 30)
	MW 4:00pm - 5:15pm	TYD 1132

GVPT443 **Contemporary Political Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.

A survey of the principal political theories and ideologies set forth in the works of writers from Karl Marx to the present.

Contact department for information to register for this course.

GVPT456 **The Politics of Terrorism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program. Credit only granted for: GVPT456 or GVPT459T. Formerly: GVPT459T.

Examination of the definition, causes and organization of terrorist activity, along with key domestic and international counter- and anti-terrorism responses. Special emphasis on challanges and opportunities to the scientific study of terrorism.

0101	Kanisha Bond	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TYD 1118

GVPT457 **American Foreign Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

The principles and machinery of the conduct of American foreign relations and an analysis of the major foreign policies of the United States.

0101	Jennifer Wallace	Seats (Total: 30)
	W 2:00pm - 4:45pm	MTH 0402

GVPT458A **Special Topics in Study Abroad IV; Inequality, Poverty and Globalization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458F **Special Topics in Study Abroad IV; Integration, Conflict and Security in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458K **Special Topics in Study Abroad IV; Themes and Issues in Transatlantic Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458M **Special Topics in Study Abroad IV; Modern Central European Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458W **Special Topics in Study Abroad IV; US & Europe Since 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458X **Special Topics in Study Abroad IV; European Legal Traditions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458Y **Special Topics in Study Abroad IV; Environmental Politics and Policy in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458Z **Special Topics in Study Abroad IV; Contemporary Germany in European Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT459B **Seminar in Comparative Politics; Comparative Political Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Ernesto Calvo TuTh 9:30am - 10:45am	Seats (Total: 30) TYD 0101

GVPT459H **Seminar in Comparative Politics; Tweeting Political Crises**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics Honors program.

0101	Ernesto Calvo TuTh 12:30pm - 1:45pm	Seats (Total: 20) TYD 1114

GVPT459I **Seminar in Comparative Politics; Thinking Like a Citizen: Civic Ideals and Civic Practices**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Governmentand Politics program. All other majors will be placed on the holdfile. This course is an introduction to the emerging field of civic studies. It takes as a starting point the idea of citizens as co-creators of their many worlds, their various communities, their countries, and of course the literal world. We will look into what knowledge and what ways of thinking are most helpful to such co-creators. Topics will include: civic work in the small (human interaction, politics, power resources), finding and building shared ground, impediments to civic action (problem of a collective action, limited human brain, the power of the status quo), and venues of civic action (including communities, social movements, countries, and the world).

0101	Karol Soltan	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1132

GVPT459K **Seminar in Comparative Politics; Russian Politics: From Lenin to Putin**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Vladimir Tismaneanu	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 1118

GVPT459M **Seminar in Comparative Politics; Social Movements**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Kanisha Bond	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TYD 1101

GVPT459X **Seminar in Comparative Politics; Political Radicalism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government and Politics program.

0101	Vladimir Tismaneanu Th 2:00pm - 4:45pm	Seats (Total: 30) TYD 2108	

GVPT460 **Problems in State and Local Government**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Recommended: GVPT260. Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program.

A study of the structure, procedures and policies of state governments with special emphasis on intergovernmental relationships, and with illustrations from Maryland governmental arrangements.

0101	Stella Rouse TuTh 11:00am - 12:15pm	Seats (Total: 30) TYD 0101	

GVPT473 **The U.S. Congress**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Junior standing or higher. And must be in Government & Politics program; or must be in Government & Politics: International Relations program.

A detailed survey of lawmaking and the legislative process, emphasizing the U.S. Congress, and its members.

0101	Eric Uslaner MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 1101 TYD 0102	 Discussion
0102	Eric Uslaner MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 1101 ARC 1105	 Discussion

0103	Eric Uslaner	Seats (Total: 25)	
	MW 10:00am - 10:50am F 9:00am - 9:50am	TYD 1101 ASY 3215	Discussion

GVPT479G **Seminar in American Politics; Interest Groups and Social Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Kristina Miler	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	TYD 1118

GVPT479H **Seminar in American Politics; POLITICAL AMBITION**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics Honors program.

0101	Frances Lee	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 0102

GVPT479Y **Seminar in American Politics; POLITICAL PSYCHOLOGY**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in Government and Politics program.

0101	Antoine Banks	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1101

GVPT482 **Government and Politics of Latin America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Government & Politics program; or must be in Government & Politics: International Relations program.

A comparative study of the governmental systems and political processes of the Latin American countries.

0101	Gonzalo Paz	Seats (Total: 26)
	MW 1:00pm - 2:15pm	HBK 0109

GVPT484 **Government and Politics of Africa**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT282 or GVPT280. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations).

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

0101	John McCauley	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TYD 2106

GVPT485 **Government and Politics of the Middle East**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

Contact department for information to register for this course.

GVPT487 **Government and Politics of China**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher. Credit only granted for: GVPT359A or GVPT487. Formerly: GVPT359A.

Discussion of major issues in the study of the domestic politics of the People's Republic of China.

0101	Margaret Pearson	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	TYD 2110	

GVPT599 **Teaching Political Science**

Credits: 1 Grading Method: Regular, Audit

Problems in teaching political science. Topics covered include lecture and discussion strategies, creation of an active learning environment, construction and evaluation of examinations, department and university policies, and dealing with various types of teaching problems. This course does not carry credit towards any degree at the University.

0101	Kathleen Cunningham	Seats (Total: 20)	
	Contact instructor or department for details.		

GVPT622 **Quantitative Methods For Political Science**

Credits: 3 Grading Method: Regular, Audit

Introduction to quantitiative methods of data analysis, with emphasis on statistical methods and computer usage. Measures of association, probability, correlation, linear regression estimation techniques, introductory analysis of variance, and use of package computer programs.

Course will meet in the LeFrak OASIS lab. For GVPT majors only.

0101	Patrick Wohlfarth	Seats (Total: 12)	
	M 3:30pm - 6:15pm	LEF 0214	
	F 2:00pm - 4:00pm	LEF 0214	Discussion

GVPT700 **Scope and Method of Political Science**

Credits: 3 Grading Method: Regular, Audit

Required of all Ph.D. candidates. A seminar in the methodologies of political science, and their respective applications to different research fields. Interdisciplinary approaches and bibliographical techniques are also reviewed.

For GVPT majors only.

0101	Mark Lichbach	Seats (Total: 12)	
	Th 9:30am - 12:15pm	TYD 1136	

GVPT708A **Seminar in International Relations Theory; International Relations Theory**

Credits: 3 Grading Method: Regular, Audit

An examination of the major approaches, concepts, and theories in the study of world politics with special emphasis on contemporary literature.

0101	Paul Huth Tu 9:30am - 12:15pm	Seats (Total: 12) TYD 1111

GVPT718C **Selected Topics in Political Science; New Methods in the Study of Conflict**

Credits: 3 Grading Method: Regular, Audit

Selected topics in the field of political science.

0101	David Cunningham Th 2:00pm - 4:45pm	Seats (Total: 12) TYD 1136
0201	William Reed Th 2:00pm - 4:45pm	Seats (Total: 12) Location: TBA

GVPT729A **Special Topics in Quantitative Political Analysis; Advanced Maximum Likelihood Estimation**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	Michael Hanmer W 12:30pm - 3:15pm	Seats (Total: 12) LEF 0214

GVPT742 **Modern Political Theory**

Credits: 3 Grading Method: Regular, Audit

Recommended: GVPT741. Restriction: Permission of BSOS-Government & Politics department.

The influence of the Enlightenment on political thought, beginning with Machiavelli and ending around the time of Mill and Marx, in which the Enlightenment worked itself out in the hopes and fears of these and other authors.

0101	James Glass	Seats (Total: 12)
	W 3:30pm - 6:15pm	TYD 1111

GVPT770 **Seminar in American Political Institutions**

Credits: 3 Grading Method: Regular, Audit

This is the core institutions seminar in American politics. The course surveys the primary literature in the field and addresses substantively significant topics related to the study of political institutions in the American context.

0101	David Karol	Seats (Total: 12)
	W 6:15pm - 9:00pm	TYD 1111

GVPT780 **Seminar in the Comparative Study of Politics**

Credits: 3 Grading Method: Regular, Audit

An examination of the salient approaches to and conceptual frameworks for the comparative study of politics, followed by the construction of models and typologies of political systems.

0101	Mark Lichbach	Seats (Total: 12)
	W 3:30pm - 6:15pm	TYD 1136

GVPT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GVPT808G **Selected Topics in Functional Problems in International Relations; Transnational Politics and Global Governance**

Credits: 3 Grading Method: Regular, Audit

An examination of the major substantive issues in contemporary international relations.

0101	Jennifer Hadden	Seats (Total: 12)
	Tu 3:30pm - 6:15pm	TYD 1111

GVPT849 **Readings in Government and Politics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science

Contact department for information to register for this course.

GVPT889E **Selected Topics in Area Problems in International Relations; Chinese Politics and Foreign Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics concerning regional problems in the relations of states.

0101	Scott Kastner, Margaret Pearson	Seats (Total: 12)
	Tu 12:30pm - 3:15pm	TYD 1136

GVPT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HACS ACES-Cybersecurity Fall 2017

HACS100 **Foundations in Cybersecurity I**

Credits: 2 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

Interdisciplinary foundational course of the ACES program. Through lectures, lab activities, and discussions, students will learn and practice various aspects of cybersecurity. Weekly technical lectures will introduce students to the operating system UNIX. Students will partner with the Division of Information Technology in a project to engage the University of Maryland community in a cyber-hygiene and cyber-ethics campaign based on the concepts learned in class.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Exper ience for Students) Living-Learning Program.

0101	Jandelyn Plane Tu 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 25) PFR 1111 PFR 0103
0201	Jandelyn Plane Tu 3:00pm - 3:50pm Th 3:00pm - 3:50pm	Seats (Total: 25) PFR 1111 PFR 0103
0301	Jandelyn Plane Tu 4:00pm - 4:50pm Th 4:00pm - 4:50pm	Seats (Total: 25) PFR 1111 PFR 0103

HACS202 **Group Project in Cybersecurity**

Credits: 3 Grading Method: Regular

Restriction: Must be a first-year student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program; and cannot have been an ACES Living-Learning Program student (i.e., have taken HACS100 and HACS102).

The group project in this course will combine technical, analytical, and communication skills, further engaging students in the practice of cybersecurity. Students will learn about design concepts and data analysis as they engage in a team project designing, deploying, and collecting and analyzing data from a honeypot. The hands-on nature of the course will give students experiential insight about how and why attackers attack and how to engage in protective measures to prevent attacks.

0101	Bertrand Sobesto TuTh 5:00pm - 6:15pm	Seats (Total: 20) LEF 1220

HACS208E **Seminar in Cybersecurity; Reverse Engineering**

Credits: 3 Grading Method: Regular General Education: DSSP

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	James Worthington W 5:00pm - 7:45pm	Seats (Total: 20) PFR 0103

HACS208N **Seminar in Cybersecurity; Seminar in Cybersecurity; Digital Forensics**

Credits: 3 Grading Method: Regular General Education: DSSP

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	Marcelle Lee Th 4:00pm - 6:45pm *Must be a student in the ACES Honors Program*	Seats (Total: 25) PFR 1111

HACS208P **Seminar in Cybersecurity; Beyond Technology, the Policy Implications of Cyberspace**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	William Nolte TuTh 12:30pm - 1:45pm	Seats (Total: 20) PFR 1111

HACS208Z **Seminar in Cybersecurity; Methods for Solving (and Not Solving) Puzzles**

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

0101	Mitchell Buchman MWF 10:00am - 10:50am	Seats (Total: 20) PFR 1111

HACS279 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS287 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS297 **Cybersecurity Experience Reflection**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.

Permission of department required.

0101	Christal Dimas	Seats (Total: 20)
	M 4:00pm - 6:45pm	PFR 1111

HACS408E **Advanced Seminar in Cybersecurity; Applied Reverse Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Catherine Redfield	Seats (Total: 20)
	M 6:00pm - 8:45pm	PFR 0103

HACS408L **Advanced Seminar in Cybersecurity; Analytical and Forensic Techniques for Cybersecurity**

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Brian Osborn	Seats (Total: 20)
	W 4:00pm - 6:45pm	ESJ 1309

HACS479 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS498 **Cybersecurity Group Problem Solving**

(Perm req)

Credits: 3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in team problem solving activities in order to gain greater insight into a specific area within cybersecurity and to obtain an appreciation for the subtleties and difficulties associated with these activities in order to prepare students for graduate school and the workforce. Students engage in a semester long problem solving or development project under the mentorship of a industry specialist and with the guidance of university faculty. Through the exercise the students will develop teamwork experience and professional communication skills in addition to experience of the project itself. The project might be evaluation, creation, testing or analysis of some area of cybersecurity as needed by the mentor-sponsor. A contract of what will be accomplished is required must be agreed upon by the mentor, the student and the ACES leadership before the project can begin.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

0101	Jandelyn Plane, Michel Cukier Contact instructor or department for details.	Seats (Total: 5)	
0201	Jandelyn Plane, Michel Cukier Contact instructor or department for details.	Seats (Total: 5)	
0301	Jandelyn Plane, Michel Cukier Contact instructor or department for details.	Seats (Total: 5)	

HDCC Design Cultures and Creativity Fall 2017

HDCC105 **Introduction to Digital Cultures and Creativity I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Digital Cultures and Creativity Honors College Living/Learning program.

History, concepts, and technologies of creative digital expression, coupled with an introduction to development for particular platforms and devices.

0101	Krista Caballero Tu 4:00pm - 5:15pm W 4:00pm - 4:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0102	Krista Caballero Tu 4:00pm - 5:15pm W 5:00pm - 5:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0103	Krista Caballero Tu 4:00pm - 5:15pm Th 4:00pm - 4:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion
0104	Krista Caballero Tu 4:00pm - 5:15pm Th 5:00pm - 5:50pm	Seats (Total: 16) PFR 1105 PFR 1105	 Discussion

HDCC208J **Seminar in Digital Cultures and Creativity; Media, Culture, and Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Alexis Lothian	Seats (Total: 11)
	Tu 4:00pm - 6:30pm	PFR 0111

HDCC208N **Seminar in Digital Cultures and Creativity; Research Methods and Practices for Computing Interaction**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Evan Golub	Seats (Total: 11)
	TuTh 2:00pm - 3:15pm	SKN 1112

HDCC208P **Seminar in Digital Cultures and Creativity; Worldbuilding Workshop: A Maker Space for Making Space**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Michelle Butler	Seats (Total: 11)
	TuTh 12:30pm - 1:45pm	JMZ 1123

HDCC208Q **Seminar in Digital Cultures and Creativity; Designing the Post Apocalypse**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Jarah Moesch	Seats (Total: 11)
	MW 4:00pm - 5:15pm	PFR 0111

HDCC208R **Seminar in Digital Cultures and Creativity; Fleshy Futures: Technologies and the Body**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Jarah Moesch	Seats (Total: 6)
	MW 2:30pm - 3:45pm	PFR 0111

HDCC208T **Seminar in Digital Cultures and Creativity; Virtual Reality: Hyper-Reality and Relative Consciousness**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Restriction: permission of instructor.

0101	Stephan Fitch	Seats (Total: 11)
	M 5:30pm - 8:00pm	PFR 0111

HDCC379 **Digital Cultures and Creativity Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves research and/or creative scholarship directed by individual DCC faculty outside of the formal classroom structure.

Prequisites: HDCC 208 and HDCC 209.

0101	Krista Caballero	Seats (Total: 5)
	Contact instructor or department for details.	

HEBR Hebrew Fall 2017

HEBR106 **Intensive Elementary Hebrew I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Assessment (FLPA) score. Credit only granted for: HEBR111 or HEBR106.

An intensive study of fundamentals of Hebrew reading, writing, listening and Israeli culture. Covers present tense in all verb categories, basic syntax and builds vocabulary.

Class will meet in person Tuesday and Thursday. An asynchronous online component will be on Fridays.

0101	Avital Karpman	Seats (Total: 28)
	Tu 11:00am - 12:15pm	JMZ 0208
	Th 11:00am - 12:15pm	JMZ 0208
	Class time/details on ELMs	ONLINE

HEBR112 **Elementary Hebrew II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HEBR111; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR103; and must not have completed HEBR104. Credit only granted for: (HEBR103 and HEBR104) or HEBR112.

Continuation of HEBR 111.

Contact department for information to register for this course.

HEBR206 **Review of Oral and Written Hebrew (Part I)**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed HEBR107 OR HEBR112; or must have appropriate Foreign Language Placement Assessment(FLPA) score. Restriction: Must not be a fluent/native speaker of Hebrew. Credit only granted for: HEBR206 or HEBR211.

Provides a comprehensive review of the fundamentals of Hebrew grammar and oral skills, and introduces new skills in future tense verb conjugation, and communication in reading, writing, listening and speaking.

Class will meet in person Tuesday and Thursday. An asynchronous online component will be on Fridays.

0101	Avital Karpman	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm Class time/details on ELMs	JMZ 1117 ONLINE

HEBR212 **Intermediate Hebrew II**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: HEBR211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed HEBR203; and must not have completed HEBR204. Credit only granted for: (HEBR203 and HEBR204) or HEBR212.

Continuation of HEBR211.

Contact department for information to register for this course.

HEBR249W **Special Topics in Hebrew Studies; Hebrew on the Web**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

A broad range of cultural and societal topics pertaining to the communication of Hebrew.

0101	Aharona Rosenthal	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

HEBR313 **Conversation and Composition I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: HEBR212; or students who have taken courses with comparable content may contact the department.

A practical language course recommended for all students continuing with Hebrew. Review of grammar and composition. Selected readings. Oral and written exercises.

0101	Aharona Rosenthal	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

0201	Aharona Rosenthal	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

HEBR369A **Special Topics in Study Abroad III; Hebrew Lower Advanced**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369C **Special Topics in Study Abroad III; Hebrew Upper Advanced**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369D **Special Topics in Study Abroad III; Hebrew Upper Intermediate**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor; and junior standing or higher.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEBR499 **Independent Study in Hebrew**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEIP Entrepreneurship and Innovation Fall 2017

HEIP143 **Foundations of Entrepreneurship and Innovation**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Entrepreneurship and Innovation Program (EIP).

Foundational ideas and terms in entrepreneurship and innovation are introduced, with attention to developing students understanding of cultivating a business in diverse, global environments; leading and collaborating in a competitive world; developing an entrepreneurial mind for an entrepreneurial world; and industry dynamics of technological innovation.

0101	Jay Smith M 5:00pm - 5:50pm	Seats (Total: 120) ATL 2324

HEIP240 **Exploring International Entrepreneurship and Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Must be an EIP student in good-standing.

An introduction to the opportunities and challenges of entrepreneurship and innovation from an international perspective.

0101	Jay Smith TuTh 12:30pm - 1:45pm	Seats (Total: 36) LPA 0100
0201	Jay Smith, John Jabara TuTh 3:30pm - 4:45pm	Seats (Total: 55) LPA 0100
0301	John Jabara, Jay Smith TuTh 5:00pm - 6:15pm	Seats (Total: 32) LPA 0100

HESI Higher Ed, Student Affairs, and International Ed Policy Fall 2017

HESI217 **Introduction to Student Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Freshman standing; or sophomore standing. Credit only granted for: HESI217 or EDCP217. Formerly: EDCP217.

Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.

Students must pay a $32 materials fee.

0101	Anne Spear TuTh 12:30pm - 1:45pm	Seats (Total: 25) KNI 1103
0201	Romina Da Costa TuTh 2:00pm - 3:15pm	Seats (Total: 25) CCC 1115
0301	Romina Da Costa MW 11:00am - 12:15pm	Seats (Total: 25) TWS 0236
FC01	Michael Goodman TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3211

HESI315 **Student Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: HESI217. Credit only granted for: HESI315 or EDCP315. Formerly: EDCP315.

Acquiring and integrating leadership knowledge within group and organizational contexts so that students can navigate organizational environments and apply leadership in diverse communities of practice and career contexts.

Students must pay a $15 materials fee.

0101	Kristen Rupert MW 11:00am - 12:15pm	Seats (Total: 25) ARC 1105
0301	Kristen Rupert MW 12:45pm - 2:00pm *Department permission required. This section is restricted to students who have completed EDCP217 or HESI217 or who have been admitted to the Minor in Leadership Studies. Email leadershipstudies@umd.edu for permission to enroll.*	Seats (Total: 15) ARC 1125
0501	Anne Spear TuTh 2:00pm - 3:15pm	Seats (Total: 25) TWS 1313

HESI318D **Applied Contextual Leadership; Greek Community Dialogues**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Student must be on a Greek governing council executive board to enroll. They can contact the instructor at msupple@ umd.edu for more information about registering.

0101	Matthew Supple, Lindsey Templeton	Seats (Total: 30)
	Th 4:00pm - 7:00pm	WDS 1130

HESI318J **Applied Contextual Leadership; Leadership and Sports**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

0101	Terry Zacker	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	PLS 1117

HESI318M **Applied Contextual Leadership; Leadership and Education**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

This course will explore public education policy in the United States, including historical context, the achievement gap, school funding, standardized testing, and alternatives to the current public education system. It will also explore the meaning of leadership in an educational context and advocacy for change within this context. All students enrolled in the course must commit six hours per week of the semester to work with the America Reads, America Counts, or Partners in Print program and must receive permission to enroll by contacting Alison Barlow at abarlow@umd.edu Visit www.arac.umd.edu for more information about AR*AC*PNP programs.

0101	Alison Barlow	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HESI318N **Applied Contextual Leadership; Leadership in Collaborative Learning Groups**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Restricted to students selected to participate in the guided study program through the Counseling Center.

0101	Yanira Ortiz Th 3:30pm - 4:45pm Contact instructor or department for details.	Seats (Total: 20) ASY 3217
0201	Yanira Ortiz W 5:00pm - 6:15pm Contact instructor or department for details.	Seats (Total: 20) ASY 3219

HESI318T **Applied Contextual Leadership; Foundations and Applications of Adventure Leadership Instruction**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Permission of Instructor. Contact Amanda Even (ameven@umd.edu) to arrange an interview. This course is designed to help students develop the necessary leadership skills for leading participants and groups in various adventure recreation activities. The course will focus on developing technical skills, leadership abilities, judgement and decision-making abilities, and overall knowledge of best practices for recreating in the natural environment.

0101	Amanda Preperato W 6:00pm - 9:00pm	Seats (Total: 8) ERC 0140

HESI320 **Social Action Seminar**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Prerequisite: HESI217. Restriction: Limited to Minor in Leadership Studies students.

The use of leadership theories to inform the practice of addressing social issues in society, on campus, or within the surrounding community. Students will: identify a current and compelling social issue; explore the historical, social, and political aspects of social issues; identify and select applicable leadership theories to confront the social issue; create and develop a plan that integrates leadership theories and the social issue; and implement and evaluate the overall social action project.

0101	Natasha Chapman Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 15) ONLINE

HESI417 **Advanced Leadership Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESI217; or students who have taken courses with comparable content may contact the department. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP417 or HESI417.

Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, historical perspectives. Exploration and reflection of personal values, decision making, in-depth analysis on various leadership activities. Theories will be emphasized.

0101	Craig Slack F 9:00am - 11:45am	Seats (Total: 15) EDU 1315

HESI418A **Special Topics in Leadership; Asian American Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Students will be introduced to leadership models and examples specific to Asian American & Pacific Islander communities throughout history and in current times. While the central objective of this course is to develop politically engaged and historically informed leaders and community members for the AAPI campus community, this course is open to anyone who is interested in social justice and learning more about student organizing around identity.

0101	Kai Kai Mascarenas TuTh 11:00am - 12:15pm Contact instructor or department for details.	Seats (Total: 20) HBK 0115

HESI418D **Special Topics in Leadership; Leadership and Ethnicity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Brandon Dula	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	ASY 3219

HESI418F **Special Topics in Leadership; Jewish Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Ari Israel	Seats (Total: 35)
	M 2:00pm - 4:45pm	TYD 0102

HESI418K **Special Topics in Leadership; Stories of the Multiracial/ethnic/cultural Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Students will be offered the opportunity to explore leadership in connection with multiracial/ethnic/cultural identities utilizing an interdisciplinary narrative approach (i.e. storytelling). Topics will include: leadership theories & styles, inter-racial/cultural relationships, transracial & transnational adoption, the multiracial family, media representations of multiracial individuals, the history of racialization in the U.S., racial identity development, processes of "othering" (e.g. colorism, authenticity testing), and the politics of claiming, passing, and accenting.

0101	Naliyah Kaya	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 0125

HESP Hearing and Speech Sciences Fall 2017

HESP120 **Introduction to Linguistics**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Additional information: HESP120 is required for HESP majors. HESP majors may not substitute LING200.

An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.

0101	Thomas Conners TuTh 12:30pm - 1:45pm	Seats (Total: 45) TYD 0111
0201	Daphney Denerville-Davis MW 5:00pm - 6:15pm	Seats (Total: 45) TYD 2106
FC01	Michelle Morrison MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) LEF 1220

HESP150 **Introduction to Language Science**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Language science is the scientific study of how humans acquire, use, comprehend, and produce language. Most people in all societies learn and use their native language or languages with apparent ease - but don't be fooled: languages are highly complex, and speaking and understanding language requires some amazing feats of mental acrobatics. Thus there are many opportunities for difficulties with language, which is the focus of our field. Understanding difficulties with speech, language, and hearing require first understanding how processing works when language is successful - the psychological (behavioral) and neurobiological (brain) factors that enable people to learn and use language despite its intricacies, the structure and properties of language itself, and how knowledge of language is acquired, represented, and processed in the mind and brain.

PBH1	Alexandra Boo, Alix Kowalski Th 6:30pm - 9:00pm *Restricted to students in the Hearing and Speech Sciences In The Evening program.*	Seats (Total: 39) TWS 0236

HESP202 **Introduction to Hearing and Speech Sciences**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of th bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

0101	Jose Ortiz	Seats (Total: 115)
	TuTh 11:00am - 12:15pm	LEF 2205

HESP300 **Introduction to Psycholinguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department. Recommended: HESP120.

An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.

0101	Jared Novick	Seats (Total: 53)
	TuTh 11:00am - 12:15pm	BPS 1236

HESP305 **Anatomy and Physiology of the Speech Mechanism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Anatomy, physiology, and neurology of speech mechanism.

0101	Margaritis Fourakis	Seats (Total: 52)
	TuTh 12:30pm - 1:45pm	WDS 1114

HESP311 **Anatomy, Pathology and Physiology of the Auditory System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.

0101	Kelly King	Seats (Total: 55)
	Tu 5:00pm - 7:30pm	LEF 2166

HESP386 **Experiential Learning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

Contact department for information to register for this course.

HESP388 **Undergraduate Research Externship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Participation in a language-based, literacy-rich preschool classroom fo children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP400 **Speech and Language Development in Children**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300; or permission of BSOS-Hearing & Speech Sciences department. Recommended: LING200 or HESP120. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Analysis of the normal processes of speech and language development in children.

0101	Yi Ting Huang	Seats (Total: 45)
	TuTh 9:30am - 10:45am	LEF 2208

PBH1	Tonya Williams-Walker Tu 6:30pm - 9:00pm	Seats (Total: 39) ASY 3203

Restricted to students in the Hearing and Speech Sciences In The Evening program.

HESP403 **Introduction to Phonetic Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to physiological, acoustic and perceptual phonetics; broad and narrow phonetic transcription; current models of speech production and perception.

0101	Kathleen Skinker TuTh 9:30am - 10:45am	Seats (Total: 45) HBK 0103

HESP406 **Acquired Neurogenic Communication Disorders in Adults**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300 and HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Survey of the dysarthrias and aphasias in adults from an interdisciplinary point of view.

0101	Yasmeen Shah TuTh 11:00am - 12:15pm	Seats (Total: 50) LEF 2208

HESP407 **Bases of Hearing Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Fundamentals of hearing, including the physics of sound, anatomy and physiology of peripheral and central auditory nervous system, psychophysical procedures used in measurement of auditory sensation and perception, and topics in psychological acoustics.

0101	Jaclyn Schurman MW 2:00pm - 3:15pm	Seats (Total: 50) TYD 1102

HESP411 **Introduction to Audiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.

0101	Christopher Zalewski TuTh 5:00pm - 6:15pm	Seats (Total: 50) ASY 1213
PBH1	Danielle Zion M 6:30pm - 9:00pm	Seats (Total: 25) TYD 2110
	Restricted to students in the Hearing and Speech Sciences In The Evening program.	

HESP413 **Aural Rehabilitation/Habilitation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP411. Restriction: Sophomore standing or higher.

The fundamental aspects of aural rehabilitation therapy for both adults and children are introduced to students. Class time will consist of lectures, discussions, and hands-on activities.

PBH1	Mary Ann Kinsella-Meier Th 6:30pm - 9:00pm	Seats (Total: 25) ASY 3203
	Restricted to students in the Hearing and Speech Sciences In The Evening program.	

HESP417 **Principles and Methods in Speech-Language Pathology and Audiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP400 and HESP411; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

The principles underlying the treatment of speech, language and hearing disorders in children and adults.

0101	Lisa Rickard, Kathryn Dow-Burger	Seats (Total: 55)
	TuTh 2:00pm - 3:15pm	JMZ 0220

HESP422 **Neurological Bases of Human Communication**

Credits: 3 Grading Method: Regular

Prerequisite: HESP305; or permission of instructor. Credit only granted for: HESP498 or HESP422.

Basic neurology as it pertains to anatomy and physiology substrates of speech and language.

0101	Kristin Slawson	Seats (Total: 55)
	TuTh 12:30pm - 1:45pm	TWS 1310

HESP469 **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469A **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469B **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP498 **Seminar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human communication and its disorders.

Contact department for information to register for this course.

HESP499 **Independent Study; Topics in the Hearing and Speech Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP499H **Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP600 **Instrumentation in Hearing and Speech Sciences**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Types and principles of operation of electronic equipment used in the hearing and speech sciences.

Offered Fall only.

0101	Sterling Sheffield	Seats (Total: 10)
	W 3:30pm - 6:00pm	SQH 1125

HESP606 **Basic Hearing Measurements**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP411; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical principles, methodology, and interpretation of routine audiometric tests, including pure tone, speech, and acoustic immittance measures. Modification of procedures for special populations. Equipment calibration and mass hearing screening programs.

0101	Sandra Gordon-Salant Th 3:30pm - 6:00pm	Seats (Total: 30) LEF 0135

HESP610 **Language Disorders in Adults**

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor.

Etiology, diagnosis and management of language problems of adults associated with aging, brain injury and degenerative conditions.

0101	Yasmeen Shah **Meets August 28, 2017 - October 20, 2017** Tu 4:00pm - 7:20pm	Seats (Total: 30) LEF 0135

HESP613 **Autism Spectrum Disorders**

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor. Credit only granted for: HESP639A or HESP613. Formerly: HESP639A.

Etiology, diagnosis and management of autism spectrum disorders.

0101	Vivian Sisskin **Meets October 24, 2017 - December 11, 2017** Tu 4:00pm - 7:20pm	Seats (Total: 40) SQH 1105

HESP616 **Language Disorders in the Pre-school Age**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: HESP400; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical, empirical and clinical perspectives on language disorders in children from infancy through pre-school age.

0101	Nan Ratner **Meets August 28, 2017 - October 21, 2017** Tu 9:30am - 12:50pm	Seats (Total: 20) LEF 0135

HESP624 **Voice Disorders**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.

Etiological characteristics, assessment and treatment of phonatory disorders in children and adults.

0101	Nancy Solomon **Meets August 28, 2017 - October 20, 2017** Tu 6:30pm - 9:00pm Class time/details on ELMs	Seats (Total: 20) TYD 2110 ONLINE

HESP630 **Electrophysiological Measurements**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Principles and techniques of physiological and electrophysiological measures of the audio-vestibular mechanisms.

Offered fall only.

0101	Samira Anderson M 3:30pm - 6:00pm	Seats (Total: 10) LEF 0135

HESP638 **Research Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP645 **Pediatric Audiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Evaluation and treatement of hearing-impaired children.

Offered Fall only.

0101	Keena Seward F 1:00pm - 3:30pm	Seats (Total: 10) LEF 0135	

HESP648A **Clinical Practice in Speech; Diagnostic Procedures**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

1901	Colleen Worthington Th 9:00am - 12:00pm	Seats (Total: 5) LEF 0135	Lab
2101	Vivian Sisskin Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	Lab
2701	Jose Ortiz Th 9:00am - 12:00pm	Seats (Total: 5) LEF 0135	Lab
2801	Eusabia Mont Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	Lab
3601	Kristin Slawson Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	Lab
3701	Kathryn Dow-Burger Th 9:00am - 12:00pm	Seats (Total: 6) LEF 0135	Lab

HESP648B **Clinical Practice in Speech; Therapeutic Procedures**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

2101	Vivian Sisskin Th 12:00pm - 1:00pm	Seats (Total: 6) LEF 0135	 Lab
2701	Jose Ortiz Th 12:00pm - 1:00pm	Seats (Total: 7) LEF 0135	 Lab
2801	Eusabia Mont Th 12:00pm - 1:00pm	Seats (Total: 7) LEF 0135	 Lab
3601	Kristin Slawson Th 12:00pm - 1:00pm	Seats (Total: 7) LEF 0135	 Lab
3701	Kathryn Dow-Burger Th 12:00pm - 1:00pm	Seats (Total: 7) LEF 0135	 Lab

HESP649A **Clinical Practice in Audiology; Diagnostic Audiology**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP649B **Clinical Practice in Audiology; Aural Rehabilitation**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP700 **Hearing Aids**

Credits: 3 Grading Method: Regular, Audit

Principles, methods and procedures for selection, fitting, calibration and management of amplification systems for hearing-impaired children and adults.

0101	LaGuinn Sherlock Tu 5:00pm - 7:30pm	Seats (Total: 10) KEY 0121	

HESP702 **Diagnostic Procedures in Speech-Language Pathology**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Diagnostic tools and methods in the analysis of speech-language disorders in children and adults.

0101	Colleen Worthington	Seats (Total: 30)
	Meets October 24, 2017 - December 11, 2017	
	Tu 9:30am - 12:50pm	LEF 0135

HESP708 **Independent Study**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP710 **Industrial and Environmental Noise Problems**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.

0101	Samira Anderson	Seats (Total: 20)
	Tu 5:00pm - 7:30pm	LEF 1222

HESP712 **Cochlear Implants and Other Implantable Technologies**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in HESP700, HESP701, and HESP722; or permission of instructor.

Comprehensive presentation of cochlear implant design and processing, medical/surgical aspects, evaluation, programming, outcomes in children and adults, and post stimulation care. The role of the audiologist as a member of the cochlear implant team will be emphasized. Current and emerging trends in other implantable technologies also will be covered.

0101	Nicole Nguyen W 5:30pm - 8:00pm	Seats (Total: 10) LEF 0135

HESP722 **Psychoacoutics**

Credits: 3 Grading Method: Regular, Audit

Auditory perception and auditory processing in normal and impaired hearing.

0101	Matthew Goupell Tu 3:30pm - 6:00pm	Seats (Total: 15) JMZ 1224

HESP728 **Advanced Clinical Practice in Speech; Advanced Graduate Laboratory Practicum in Speech-Language Pathology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

Contact department for information to register for this course.

HESP729 **Advanced Clinical Practice in Audiology; Advanced Graduate Laboratory Practicum in Audiology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

1301	Nicole Nguyen TBA Contact instructor or department for details.	Seats (Total: 10) LEF 0135
3201	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 20)

HESP788 **Graduate Research Externship**

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HESP818G **Seminar in Language Processing**

Credits: 3 Grading Method: Regular

Information processing models of language, relationships among language memory and cognition.

3901	Jan Edwards, Jeffrey Lidz M 2:00pm - 5:00pm	Seats (Total: 20) JMP 2124

HESP829 **Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular, Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

1301	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 30)
3201	Nicole Nguyen Contact instructor or department for details.	Seats (Total: 10)

HESP849 **Capstone Research Project I**

Credits: 2 Grading Method: Regular

First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.

Contact department for information to register for this course.

HESP859 **Capstone Research Project II**

Credits: 1-2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Contact department for information to register for this course.

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HHUM Honors Humanities Fall 2017

HHUM105 **Honors Humanities: Introduction to the Arts and Humanities**

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU

Restriction: Must be an entering freshmen in the Honors Humanities Program. Credit only granted for: ARHU105 or HHUM105. Formerly: ARHU105.

Introduction to the university, the different fields of the arts and humanities, and the history of how the university and the humanities have evolved across the world from ancient times to the present. Primary emphasis on reading and discussion of literary artifacts to assess the meaning and social status of the arts and humanities in the past and their personal and social value for the future.

0101	Gregory Staley Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 16) ESJ 2309 ESJ 2309	 Discussion
0102	Gregory Staley Tu 9:30am - 10:45am Th 3:30pm - 4:45pm	Seats (Total: 16) ESJ 2309 ANA 0103	 Discussion

0103	Gregory Staley Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 16) ESJ 2309 EDU 1107	 Discussion
0104	Gregory Staley Tu 9:30am - 10:45am Th 2:00pm - 3:15pm	Seats (Total: 16) ESJ 2309 EDU 2102	 Discussion

HHUM205 **Second Year Seminar in Honors Humanities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DVUP

Credit only granted for: ARHU205 or HHUM205. Formerly: ARHU205.

Seminar on basic issues and methodologies in the humanities and arts.

0101	Jason Kuo MW 3:00pm - 4:15pm	Seats (Total: 15) HBK 0302H
0102	Aneta Georgievska-Shine TuTh 2:00pm - 3:15pm	Seats (Total: 15) ANA 0120
0103	Michelle Butler TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 3120

HHUM328 **Internship in Honors Humanities**

Credits: 1-3 Grading Method: Regular

Supervised service-learning in Honors Humanities.

0101	Gregory Staley Contact instructor or department for details.	Seats (Total: 8)

HHUM329 **Undergraduate Teaching Assistantship**

Credits: 1-3 Grading Method: Regular

Supervised pedagogical service-learning in the Honors Humanities curriculum.

0101	Gregory Staley Contact instructor or department for details.	Seats (Total: 8)

HISP Historic Preservation Fall 2017

HISP600 **History, Theory, and Practice of Historic Preservation**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

An introduction to history, theory and practice of historic preservation covered through readings, discussions, presentations, class projects, and field trips.

0101	Dennis Pogue	Seats (Total: 25)
	Th 7:00pm - 9:40pm	ARC 1117

HISP611 **Historical Research Methods**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP610 or HISP611.

Research methods used by professional historic preservationists to identify and record historic structures and sites. Emphasizes inter/multidisciplinary nature of contemporary preservation practice using archival and ethnographic evidence as a basis for establishing significance.

Department permission required.

0101	Dennis Pogue	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1117

HISP619L **Special Topics in Historic Preservation; Vernacular Architecture Lab**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

0101	Donald Linebaugh	Seats (Total: 10)
	Contact instructor or department for details.	

HISP629 **Independent Studies in Historic Preservation**

Credits: 1-3

Grading Method: Regular, Audit

Individual Instruction course.

0101	Donald Linebaugh	Seats (Total: 1)
	Contact instructor or department for details.	

HISP650 **Historic Preservation Studio Workshop**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: HISP600; and permission of ARCH-Historic Preservation Program. Restriction: Must be in a major in ARCH-Historic Preservation Program.

Students carry out a group preservation project in a local community, from inception and problem formulation through completion. Guided carefully by a faculty team, students will conduct research, interact with communities, perform analyses, and propose solutions for an issue or problem of direct relevance to a local community and client group.

Department permission required.

0101	Jeremy Wells	Seats (Total: 15)
	TuTh 4:00pm - 6:40pm	ARC 1117

HISP655 **American Vernacular Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP655 or HISP619V. Formerly: HISP619V.

History, theory, and practice of American vernacular architecture including a review of common building technologies, structure, and style, and focusing on methods and approaches for recording, documenting and analyzing these historic resources.

Prerequisite: permission of department. Class will meet some sessions at Bostwick House.

0101	Donald Linebaugh	Seats (Total: 15)
	Tu 7:00pm - 9:40pm	ARC 1117

HISP660 **Internship in Historic Preservation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

0101	Donald Linebaugh	Seats (Total: 10)
	Contact instructor or department for details.	

HISP680 **Preservation Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619N or HISP680. Formerly: HISP619N.

Students are introduced to a range of economic theories, methods, and issues that must be considered in the practice of historic preservation. Case studies related to community economic development, adaptive reuse, tax credit programs, project finance, and land use will be presented.

0101	Brent Leggs	Seats (Total: 15)
	M 7:00pm - 9:40pm	ARC 1117

HISP701 **Certificate Portfolio Project**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.

Department permission required.

0101	Donald Linebaugh	Seats (Total: 10)
	Contact instructor or department for details.	

HISP710 **Final Project in Historic Preservation I**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP710. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.

Department permission required.

0101	Dennis Pogue W 4:30pm - 6:00pm	Seats (Total: 10) ARC 1117

HISP711 **Final Project in Historic Preservation II**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP711. Formerly: HISP700.

An independent, applied research project invesitgating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.

Department permission required.

0101	Dennis Pogue Contact instructor or department for details.	Seats (Total: 10)
0102	Jeremy Wells Contact instructor or department for details.	Seats (Total: 5)

HIST History Fall 2017

HIST110 **The Ancient World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture; religion and myth in the ancient Near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.

0101	Arthur Eckstein MW 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0102	Arthur Eckstein MW 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 JMZ 0103	 Discussion

0103	Arthur Eckstein MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0104	Arthur Eckstein MW 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 JMZ 1224	Discussion
0105	Arthur Eckstein MW 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0106	Arthur Eckstein MW 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 WDS 1127	Discussion
0107	Arthur Eckstein MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion
0108	Arthur Eckstein MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion

HIST111 **The Medieval World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DVUP

The development of Europe in the Middle Ages; the role of religious values in shaping new social, economic, and political institutions; medieval literature, art and architecture.

0101	Colleen Ho MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) ASY 2203 TLF 1101	Discussion
0102	Colleen Ho MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) ASY 2203 TLF 2103	Discussion

0103	Colleen Ho MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 20) ASY 2203 WDS 1131	Discussion
0104	Colleen Ho MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 20) ASY 2203 KEY 0117	Discussion
0105	Colleen Ho MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) ASY 2203 WDS 1127	Discussion
0106	Colleen Ho MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) ASY 2203 KEY 0125	Discussion
0107	Colleen Ho MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2203 TLF 1101	Discussion
0108	Colleen Ho MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ASY 2203 TLF 1101	Discussion

HIST113 **The Making of Modern Europe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Evolution of modern nation states since late medieval times. Industrial-economic structure and demography. Emergence of modern secular society.

0101	Piotr H Kosicki TuTh 11:00am - 12:15pm	Seats (Total: 40) KEY 0116

HIST120 **Islamic Civilization**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHU

Also offered as: RELS120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Ahmet Karamustafa MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) SYM 0200 TLF 1103	Discussion
0102	Ahmet Karamustafa MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 20) SYM 0200 TLF 2103	Discussion
0103	Ahmet Karamustafa MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 KEY 0123	Discussion
0104	Ahmet Karamustafa MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 TLF 1101	Discussion

HIST133 **"God Wills It!" The Crusades in Medieval and Modern Perspectives**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, SCIS

Credit only granted for: HIST133, HIST289D, or RELS289D. Formerly: HIST289D.

An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.

Also offered as RELS289D.

0101	Janna Bianchini MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0102	Janna Bianchini MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

0103	Janna Bianchini MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 0118	Discussion
0104	Janna Bianchini MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1103	Discussion

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

0101	Michael Ross TuTh 9:30am - 10:20am W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 LEF 1222	Discussion
0102	Michael Ross TuTh 9:30am - 10:20am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 WDS 1130	Discussion
0103	Michael Ross TuTh 9:30am - 10:20am W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 WDS 1131	Discussion
0104	Michael Ross TuTh 9:30am - 10:20am W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0105	Michael Ross TuTh 9:30am - 10:20am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 JMZ 1120	Discussion
0106	Michael Ross TuTh 9:30am - 10:20am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion

0107	Michael Ross TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0108	Michael Ross TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion

HIST134S **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

Restricted to students in College Park Scholars-Justice and Legal Thought program.

0201	Michael Ross TuTh 9:30am - 10:20am F 9:00am - 9:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion
0202	Michael Ross TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion
0203	Michael Ross TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion

HIST135 **Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP, SCIS

An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

Also offered as JWST289E. Credit granted for HIST135 or JWST289E. An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

0101	Bernard Cooperman MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 KEY 0121	Discussion
0102	Bernard Cooperman MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2204 KEY 0117	Discussion
0103	Bernard Cooperman MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2204 ASY 3217	Discussion
0104	Bernard Cooperman MW 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 KEY 0121	Discussion

HIST136 **Moneyland: Business in American Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Examines the interplay between America's stature as a business society and the public distrust of commerce, big business, and money.

0101	David Sicilia MW 1:00pm - 1:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 1224 TWS 1321	Discussion
0102	David Sicilia MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) ESJ 1224 TWS 1321	Discussion
0103	David Sicilia MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 20) ESJ 1224 LEF 1222	Discussion
0104	David Sicilia MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 20) ESJ 1224 KEY 0116	Discussion

0107	David Sicilia MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 22) ESJ 1224 ASY 3215	Discussion
	Restricted to students in the Carillon living-learning community.		

HIST143 **Power, Ritual, and Society in Western History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST289F or HIST143. Formerly: HIST289F.

Introduces students to influential works of political thinking, in the Western tradition from classical Antiquity to the present, that treat the relationship between power, ritual, and society. Investigates ritual and its relationships to power, both in reality and the imagination of political thinkers.

0101	Alejandro Caneque TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 KEY 0117	Discussion
0102	Alejandro Caneque TuTh 12:30pm - 1:20pm Th 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 KEY 0121	Discussion
0103	Alejandro Caneque TuTh 12:30pm - 1:20pm Th 11:00am - 11:50am	Seats (Total: 20) SYM 0200 KEY 0117	Discussion
0104	Alejandro Caneque TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 KEY 0117	Discussion

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

0101	Robert Chiles TuTh 12:30pm - 1:20pm Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0102	Robert Chiles TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0103	Robert Chiles TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0104	Robert Chiles TuTh 12:30pm - 1:20pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0105	Robert Chiles TuTh 12:30pm - 1:20pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0106 JMZ 1215	Discussion
0106	Robert Chiles TuTh 12:30pm - 1:20pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0107	Robert Chiles TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0108	Robert Chiles TuTh 12:30pm - 1:20pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
FC01	Rachel Walker TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) KEY 0125	

HIST201 **Interpreting American History: From 1865 to the Present**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

0101	Howard Smead MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	 Discussion
0102	Howard Smead MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0116	 Discussion
0103	Howard Smead MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0104	Howard Smead MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 WDS 0104	 Discussion
0105	Howard Smead MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 ASY 3217	 Discussion
0106	Howard Smead MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 LEF 1220	 Discussion
0107	Howard Smead MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0116	 Discussion
0108	Howard Smead MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 WDS 0104	 Discussion
0109	Howard Smead MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0116	 Discussion
0110	Howard Smead MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion

0111	Howard Smead MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0112	Howard Smead MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0201	Robert Chiles TuTh 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0202	Robert Chiles TuTh 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 WDS 1127	 Discussion
0203	Robert Chiles TuTh 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0204	Robert Chiles TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0205	Robert Chiles TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0206	Robert Chiles TuTh 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 TLF 2103	 Discussion
0207	Robert Chiles TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0208	Robert Chiles TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion

FC01	Jeffrey Coster MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) ASY 3211	
FC02	Robert Chiles TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) KEY 0126	

HIST204 **Introduction to the History of Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Credit only granted for: HIST174 or HIST204. Formerly: HIST174.

An exploration of the roots of modern science from the ancient Greeks through the medieval and early modern periods. Focus on the men and women who helped to create the sciences and to change public perceptions of their disciplines.

FC01	John Matthews MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) WDS 1114	

HIST205 **Environmental History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

An exploration of the way different societies have used, imagined, and managed nature. Includes examination of questions of land use, pollution, conservation, and the ideology of nature, especially but not exclusively in Europe and North America.

0101	Thomas Zeller TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) TYD 0117 TLF 1101	Discussion
0102	Thomas Zeller TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 20) TYD 0117 TLF 1103	Discussion
0103	Thomas Zeller TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 20) TYD 0117 TLF 1103	Discussion

0104	Thomas Zeller TuTh 12:30pm - 1:20pm Th 11:00am - 11:50am	Seats (Total: 20) TYD 0117 TLF 2103	 Discussion

HIST208I **Historical Research and Methods Seminar; Religion, Secularism, and Revolution in the Early Modern World**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Jonathan Brower M 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Jonathan Brower M 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208J **Historical Research and Methods Seminar; Race, Gender and Science in American History**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Rachel Walker Tu 9:30am - 11:20am Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Rachel Walker Tu 12:30pm - 2:20pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208K **Historical Research and Methods Seminar; The American Civil War**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Roger Bailey Th 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107	
0201	Roger Bailey Th 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107	

HIST213 **History of Sexuality in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS

Credit only granted for: HIST213 or HIST219O. Formerly: HIST219O.

Explores the social construction of sexualities from the first colonial settlement to the modern era in the United States. Analyzes the implications of these understandings for power relations in U.S history.

Also offered as WMST298L. Credit only granted for: HIST213, HIST219O, or WMST298L. Formerly: HIST219O.

0101	Clare Lyons MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 KEY 0121	Discussion
0102	Clare Lyons MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) SQH 1120 KEY 0121	Discussion
0103	Clare Lyons MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 TLF 2103	Discussion
0104	Clare Lyons MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 TLF 2103	Discussion

HIST219C **Special Topics in History; The Million that's gone: The Jews of Muslim Lands in Modern Time**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Also offered as JWST289A. Credit granted for JWST289A or HIST219C. Examines the complex and fraught history of the Jews of Muslim lands in modern times, a population reduced from about one million a century ago to several tens of thousands today.

0101	Shay Hazkani	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HJP 2118

HIST219J **Special Topics in History; Modern India: From the British Raj to the World's Largest Democracy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Surveys the making of modern India, as well as Pakistan and Bangladesh, from the onset of colonialism in the 18th century to the present day. Focuses on three key themes: state formation and the persistence of regional identities; the negotiation of religious, ethnic, caste, and gender differences; and economic development and inequality.

0101	Mircea Raianu	Seats (Total: 40)
	MW 2:00pm - 3:15pm	JMP 1202

HIST219O **Special Topics in History; From Tarzan to Star Trek: Colonialism, Technology, and Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Paul Landau	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 1117

HIST219R **Special Topics in History; Australia: Conflict and Transformation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST219V **Special Topics in History; Islam in/and America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as AAST298A and AMST298I. Credit granted for AAST298A, AMST298I, or HIST219V. Islam in/and America examines the history and presence of Islam in the United States, and the construction and evolution of U.S. Muslim identity, community, and culture. A CIC CourseShare online course and part of the DISC initiative (Digital Islamic Studies Curriculum).The instructor is Sylvia Chan-Malik (American Studies/Women's and Gender Studies/Asian American Studies) at Rutgers University, but you enroll and receive credit for it at Maryland. You will also need to be entered into the University of Michigan Canvas course management system. The course meets twice a week in real time using video conferencing technology. For more information about this course, including textbook information and instructions on enrolling, please contact Prof.Janelle Wong (janellew@umd.edu).

0101	Ilyas Abukar	Seats (Total: 10)
	TuTh 1:10pm - 2:30pm	HJP 3120

HIST219X **Special Topics in History; Modern Iran**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as HIST219X. Credit granted for PERS251 or HIST219X. General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2122

HIST219Z **Special Topics in History; The Devil in the Western Imagination**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as RELS219Z. Credit granted for HIST219Z or RELS219Z. Students take an interdisciplinary look at how the Devil has been thought of and portrayed over time, from the Bronze Age Middle East to the present.

0101	Andrew Kellett	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

HIST224 **Modern Military History, 1494-1815**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

Survey of the military history of Europe through an examination of the economic, financial, strategic, tactical, and technological aspects of the development of military institutions and warfare from the dynastic wars of the Valois and Habsburgs to the national wars of the French Revolution and Napoleonic Empire.

0101	James Morningstar	Seats (Total: 40)
	MW 3:30pm - 4:45pm	KEY 0103

HIST232 **The Historical Development of London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

Restriction: Permission of Study Abroad Office required. Credit only granted for: GNED288 and HIST232. Formerly: GNED288.

Study Abroad in London, England. The history of London, beginning with its foundation by the Romans, continuing with the city's progressive political and cultural domination of England, the British Isles and the British Empire, and concluding with a look at the city in the 20th century. Students look at London through the eyes of contemporaries and historians while forming their own impressions of the city during course-based walking tours of the city.

Contact department for information to register for this course.

HIST234 **History of Britain to 1485**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS

British history from Roman times to the 15th century. The Anglo-Saxon, Scandinavian, and Norman invasions; the coming of Christianity; Magna Carta, the development of Parliament, legal institutions, and the Common Law; the decline of medieval kingship.

0101	Sabrina Baron	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0126

HIST250 **Colonial Latin America**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

Also offered as: LASC250. Credit only granted for: HIST250 or LASC250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 1117

HIST254 **African-American History to 1865**

Credits: 3	Grading Method: Regular, Pass-Fail	General Education: DVUP

Survey of the principal developments in the history and culture of the peoples of African descent in colonial North America and the United States to 1865. Examines the African past, the Atlantic slave trade, variation in slavery, the growth of free black communities, the transformations of families and cultural forms, and patterns of resistance.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Christopher Bonner TuTh 11:00am - 12:15pm	Seats (Total: 40) KEY 0103

HIST266 **The United States in World Affairs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

A study of the United States as an emerging world power and the American response to changing status in world affairs. Emphasis on the relationship between internal and external development of the nation.

0101	Howard Smead MW 2:00pm - 3:15pm	Seats (Total: 40) SQH 1103

HIST269D **Special Topics in Study Abroad II; Barcelona: the City and its History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269K **Special Topics in Study Abroad II; Mediterranean Culture and History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269M **Special Topics in Study Abroad II; History of Modern Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269Y **Special Topics in Study Abroad II; Rome: Republic and Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST284 **East Asian Civilization I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

An interdisciplinary survey of the development of East Asian cultures. An historical approach drawing on all facets of East Asian traditional life, to gain an appreciation of the different and complex cultures of the area.

0101	Ting Zhang TuTh 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) SYM 0200 KEY 0121	Discussion
0102	Ting Zhang TuTh 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 KEY 0121	Discussion
0103	Ting Zhang TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) SYM 0200 TYD 2108	Discussion
0104	Ting Zhang TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 MTH 0403	Discussion

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HIST287 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: JWST233. Credit only granted for: HIST287 or JWST233.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

0101	Bernard Cooperman MW 2:00pm - 3:15pm	Seats (Total: 30) KEY 0100	

HIST289C **Mirror of Democracy: The Golden Age of Athens**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

0101	Joseph Frechette MW 4:00pm - 4:50pm W 10:00am - 10:50am	Seats (Total: 20) LEF 2166 KEY 0120	Discussion
0102	Joseph Frechette MW 4:00pm - 4:50pm W 12:00pm - 12:50pm	Seats (Total: 20) LEF 2166 TWS 1321	Discussion
0103	Joseph Frechette MW 4:00pm - 4:50pm W 1:00pm - 1:50pm	Seats (Total: 20) LEF 2166 TLF 1101	Discussion
0104	Joseph Frechette MW 4:00pm - 4:50pm W 2:00pm - 2:50pm	Seats (Total: 20) LEF 2166 KEY 0117	Discussion
FC01	Joseph Frechette MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TLF 2103	

HIST289O **Lawlessness: From Pirates to Body-snatchers, Exploring the Legitimacy of Illicit Activity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Explores motives of and responses to the lawless behavior of pirates, body snatchers, bandits, vigilantes, smugglers and others worldwide from the 1500s to today.

0101	Anne Rush MW 1:00pm - 1:50pm M 2:00pm - 2:50pm	Seats (Total: 20) TYD 0117 JMZ 2120	Discussion
0102	Anne Rush MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) TYD 0117 JMZ 2120	Discussion

0103	Anne Rush MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 20) TYD 0117 TLF 1103	Discussion
0104	Anne Rush MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 20) TYD 0117 KEY 0126	Discussion
FC01	Anne Rush MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) JMZ 0125	

HIST289Y **Zombies, Fear, and Contagion: A Cultural History of Public Health, Medicine, and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, DVUP, SCIS

0101	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) ESJ 0202 SYM 0209	Discussion
0102	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) ESJ 0202 KEY 0124	Discussion
0103	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 20) ESJ 0202 SYM 0209	Discussion
0104	Chantel Rodriguez TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 0202 PLS 1158	Discussion
0105	Chantel Rodriguez TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ESJ 0202 MTH 0104	Discussion
0106	Chantel Rodriguez TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 0202 PLS 1117	Discussion

0107	Chantel Rodriguez TuTh 2:00pm - 2:50pm Th 3:30pm - 4:20pm	Seats (Total: 20) ESJ 0202 KEY 0124	Discussion
0108	Chantel Rodriguez TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ESJ 0202 KEY 0120	Discussion
0109	Chantel Rodriguez TuTh 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 20) ESJ 0202 MTH 1313	Discussion
0110	Chantel Rodriguez TuTh 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 20) ESJ 0202 KEY 0121	Discussion
0111	Chantel Rodriguez TuTh 2:00pm - 2:50pm M 12:00pm - 12:50pm	Seats (Total: 20) ESJ 0202 KEY 0121	Discussion
0112	Chantel Rodriguez TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 0202 KEY 0121	Discussion

HIST299 **Directed Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST306 **History of Religion in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST201, HIST210, HIST211, HIST213, HIST254, or HIST255; or must have completed HIST156 or HIST157; or permission of instructor. Also offered as: RELS346. Credit only granted for: HIST306 or RELS346.

A history of religion, religious movements, and churches in America from the early Colonial period to the present, with special attention to the relation between church and society.

0101	Miles Bradbury	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TLF 1103

HIST310 **History of South Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Formerly: HIST419E.

Explores the roots of Apartheid and the anti-Apartheid movement from precolonial times to the present: the social history of work and identity, the rise of kingdoms (Zulu, Sotho), conquest and colonial administration, urban and rural mass politics, gender relations, and the transition to democracy.

0101	Paul Landau	Seats (Total: 30)
	TuTh 9:30am - 10:45am	KEY 1117

HIST319K **Special Topics in History; Antisemitism: The "Old", the "Modern", and the "New" in European History and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

This course first examines pre-modern "old" religiously based antagonism to Judaism and the Jews, then turns to "modern" more secular forms of antisemitism in 19th and 20th centuries and concludes with "new" examination of globalization of antisemitism in late 20th and early 21st century.

0101	Jeffrey Herf	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TLF 2108

HIST319V **Special Topics in History; America in the 1960s**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Katarina Keane	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TLF 1101

HIST326 **The Roman Republic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST111 or HIST110; or permission of instructor.

Ancient Rome 753-44 B.C., from its founding to the assassination of Julius Caesar. Rome's conquest of the Mediterranean world, the social and political forces that brought it about, and the consequent transformation and decline of the Republic.

0101	Arthur Eckstein	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0116

HIST328A **Selected Topics in History; Forging the Tortilla Curtain: US-Mexico Borderlands History,1800-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as USLT318C. Credit granted for HIST328A or USLT318C. The historical roots of the U.S.-Mexico border and borderlands landscape, 1800-present. Emphasis on the creation and militarization of the U.S.-MX border, the effects of border-making and free-enterprise on borderlands society, the development of U.S. immigration policy at the U.S.-MX border, the challenges of globalization, and the Mexican migration experience.

0101	Chantel Rodriguez	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0126

HIST328R **Selected Topics in History; Global History of Soccer: Politics, Culture, and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Daniel Richter	Seats (Total: 40)
	MW 3:30pm - 4:45pm	KEY 0126

HIST329B **Special Topics in History; Drugs in the Modern World: From Opium Wars to the War on Drugs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Daniel Richter	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0126

HIST329E **Special Topics in History; Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as AASP313 and WMST314. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown	Seats (Total: 35)
	M 6:00pm - 8:30pm	KEY 0103

HIST329F **Special Topics in History; Religion and Empire in Late Antiquity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This class surveys the history of the Mediterranean and Near East in Late Antiquity (c. 250-750 CE). It focuses on the relationship between state institutions, economic power and religious authority in the empires of Rome, Iran and their successor states.

0101	John Weisweiler	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	LEF 1220

HIST329I **Special Topics in History; Race in Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as LASC348I. Credit granted for HIST329I or LASC348I. Explores race relations in Latin America from the colonial era through the present. Covers indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time; systems of racial categorization; race-mixing (or mestizaje); slavery and emancipation; labor markets; access to property; local and regional identities; gender and sexuality; science and the arts; nationalism; and transnationalism.

0101	Karin Rosemblatt	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0103

HIST329Q **Special Topics in History; The Koreas: Korean War to the 21st Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This is a CIC courseshare course. The instructor, Professor Charles Kim, is at the University of Wisconsin, Madison, but UMD students enroll and receive it at UMD. Also offered as KORA398E. Credit granted for HIST329Q or KORA398E.

0101	Instructor: TBA	Seats (Total: 15)
	TuTh 10:30am - 11:45am	JMZ 1123

HIST329V **Special Topics in History; Elizabeth I of England and Mary Queen of Scots: Between Propaganda and Myth**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This class investigates the origins and developments of the representations of Queen Elizabeth and Mary Stuart, and of the myths that arose around their figures and vicissitudes.

0101	Stefano Villani	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HBK 1112

HIST331 **Europe in the High Middle Ages: 1000-1500**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: RELS341. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

0101	Janna Bianchini	Seats (Total: 40)
	MW 2:00pm - 3:15pm	ASY 3203

HIST352 **America in the Colonial Era, 1600-1763**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, or HIST254; or must have completed HIST156; or permission of instructor.

The founding of the English colonies in America and their European backgrounds, the reasons for the instability of colonial society to 1689 and the emergence of stable societies after 1689; the development of colonial regionalism, political institutions, social divisions, the economy, religion, education, urban and frontier problems in the eighteenth century.

0101	Miles Bradbury	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TLF 1103

HIST353 **America in the Revolutionary Era, 1763-1815**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, HIST254, or HIST275; or must have completed HIST156; or permission of instructor.

The background and course of the American Revolution and early nationhood through the War of 1812. Emphasis on how the Revolution shaped American political and social development, the creation of a new government under the Constitution, and the challenges facing the new nation.

0101	Whitman Ridgway	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0103

HIST355 **Civil War and the Rise of Industrialization, 1860-1900**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST201, HIST210, HIST213, HIST222, HIST254, HIST255, or HIST275; or must have completed HIST156 or HIST157; or permission of instructor. Credit only granted for: HIST355 or HIST364.

Civil War, sectional and class conflicts and their impact on American life and institutions from the beginning of the Civil War through the Gilded Age; social, economic, and political reconstruction of the Union; industrialization, urbanization, and technological changes.

0101	Robert Chiles	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TYD 2108

HIST357 **Recent America: 1945-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the presen with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

0101	Robert Chiles	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0126

HIST369F **Special Topics in Study Abroad III; Caesar, Cicero and the Collapse of the Roman Republic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST371 **Jews and Judaism in Antiquity II: First through Seventh Century**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, DVUP

Recommended: HIST370. Also offered as: JWST326. Credit only granted for: HIST371 or JWST326.

Political, social, and religious history of the Jews from the destruction of the Jerusalem Temple in 70 CE to the Muslim conquests. Special attention to the political transformation of Judaism under late Roman Christianity, and the rise of the Rabbinic movement.

0101	Hayim Lapin Tu 4:00pm - 6:30pm	Seats (Total: 30) KEY 0100

HIST382 **Law and Culture in Late Imperial China**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An exploration of Chinese law and its social/cultural implications in the late imperial period (1550s-1900s). Major interpretations of the conceptions of law and justice, the functioning of the judicial system, and local courts. An introduction to society and culture, politics and the bureaucracy, family and gender relations, and literature and popular religion of China through the lens of law.

0101	Ting Zhang TuTh 3:30pm - 4:45pm	Seats (Total: 30) TLF 1101

HIST386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

Contact department for information to register for this course.

HIST395 **Honors Colloquium I**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-History department; and must be in History program.

History and theory: the conceptual underpinnings of the historical discipline. Students evaluate several contrasting theories of history. Prerequisite for other honors courses.

0101	Holly Brewer	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	TLF 2108

HIST398 **Honors Thesis I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Individual research and preparation of History Honors Theses.

Prerequisite: permission of department.

0101	Holly Brewer	Seats (Total: 15)
	W 2:00pm - 4:30pm	TLF 2108

HIST405 **Environmental History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to the key issues and methods of environmental history. The scope of the subject is discussed, as well as its relationship with other disciplines, such as ecology, anthropology, and geography. A primary focus is environmental change in history with emphasis on the American experience.

0101	Robert Friedel	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KEY 1117

HIST408I **Senior Seminar; Literature and Jewish Life in Eastern Europe**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: permission of department.

0101	Rachel Manekin	Seats (Total: 5)
	TuTh 3:30pm - 4:45pm	SQH 1125

HIST408P **Senior Seminar; War in the Pacific**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: permission of department.

0101	Colleen Woods Tu 3:30pm - 5:20pm Contact instructor or department for details.	Seats (Total: 12) JMZ 1124

HIST408Q **Senior Seminar; Democracy and Dictatorship in Modern German History**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: permission of department.

0101	Jeffrey Herf Tu 3:30pm - 5:30pm Contact instructor or department for details.	Seats (Total: 12) JMZ 1123

HIST408R **Senior Seminar; Race and Religion in the Middle Ages**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of Department.

0101	Colleen Ho W 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST419P **Special Topics in History; Origins of Ethnic Cleansing in Russia and the Soviet Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Mikhail Dolbilov TuTh 9:30am - 10:45am	Seats (Total: 30) JMZ 3205

HIST419Q **Special Topics in History; Before the Holocaust: The Golden Age of European Jewry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST370. Credit granted for HIST419Q or JWST370. An exploration of the history of the Jews of Eastern Europe from the period of the Polish Lithuanian Commonwealth until the Holocaust. Topics to be covered include religious, political, social, and cultural transformation of Jewish life in Eastern Europe in the context of the general political changes in the area.

0101	Rachel Manekin	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1107

HIST419X **Special Topics in History; Corporations on Trial: Histories of Law, Capitalism, and Human Rights**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examines legal challenges to corporations around the world over the past 200 years through selected case studies. Topics include globalization, empires, the world wars, and the emergence of human rights, corporate social responsibility, and environmental justice.

0101	Mircea Raianu	Seats (Total: 20)
	Tu 2:00pm - 4:30pm	JMZ 2125

HIST428A **Selected Topics in History; Chinese Cities and Frontiers**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	James Gao	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	KEY 0116

HIST428K **Selected Topics in History; Cosmopolitanism and Empire in the Ancient Mediterranean and Near East**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This seminar explores the relationship between cosmopolitanism and empire in Antiquity. It traces the distinctive forms of cultural self-understanding adopted by the ruling lites of the Assyrian, Achaemenian, Seleukid, Roman and Iranian empires.

0101	John Weisweiler	Seats (Total: 8)
	Tu 6:00pm - 8:30pm	TLF 2108

HIST428L **Selected Topics in History; Archaeology of Slavery: Classical, Caribbean and North American Contexts**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Has slavery always existed? Does it come and go? North American plantation archaeology has become one of the foundations for understanding African American culture from the 1960s. Slavery in Antiquity existed in Greece and Rome on large scales and was essential to making commercial agriculture profitable work. Slavery in the Caribbean showed Europeans how to make a profit from African bodies. Trafficking in human persons today is recorded by the U.S. State Department annually and is regarded as modern slavery. These varying contexts of slavery will be compared in an attempt to understand slavery scientifically. Also offered as ANTH433, AASP498T, AMST428D, and ARCH428L. Credit granted for HIST428L, ANTH433, AASP498T, AMST428D, or ARCH428L.

0101	Mark Leone	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	WDS 1130

HIST428R **Selected Topics in History; Transition to Islam: From the Ancient to the Medieval Muslim World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course questions the rise of Islam in Late Antiquity, the development of the Caliphate, and the making of a discrete Muslim identity, up to the classical Abbasid period (9-10th centuries).

0101	Antoine Borrut	Seats (Total: 25)
	MW 2:00pm - 3:15pm	TLF 1101

HIST428X **Selected Topics in History; 1967 and its Aftermath: How they Changed Israel and the Mideast**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as ISRL448T and JWST429D. Credit granted for ISRL448T, JWST429D, or HIST428X. The Six Day/June War of 1967 helped set into motion a series of events that reverberate today. This seminar will examine the results of the war, focusing primarily on the Israeli Occupation of the West Bank, the ensuing radical transformation of Israeli policy towards Palestinians, and its impact on their daily lives. It will also examine Palestinian resistance to the Occupation, including the use of terror against civilians.

0101	Shay Hazkani	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HJP 4120

HIST429A **Special Topics in History; Victoria's Secrets: Sex and Class in Nineteenth Centure Britain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Queen Victoria, Darwin, Sherlock Holmes and Jack the Ripper: meet some of the Victorians who continue to captivate our historical imagination and learn the truth about sex, class, and race in 19th Century Britain.

0101	Julie Taddeo	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	HBK 1112

HIST429I **Special Topics in History; American Slavery, American Freedom**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Readings and discussions on the nineteenth-century United States. We will explore the range of histories that slavery touched, including American economic development, abolitionism, national expansion, the Civil War, and Reconstruction.

0101	Christopher Bonner	Seats (Total: 20)
	Th 2:00pm - 4:30pm	JMZ 1117

HIST429K **Special Topics in History; From Colonization to Decolonization in North Africa, 1830-1962**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The course examines the colonial experience in North Africa from the French conquest of Algeria in 1830 to the end of the Algerian war in 1962. The main focus will be on Algeria, Morocco, and Tunisia. Readings and primary sources will address colonial administration and social Orientalism and cultural imperialism, the formation of national independence movements, and the role of ideology and religion in them. Students will explore the history of colonialism in North Africa through the eyes of both the colonizers and the colonized.

0101	Peter Wien	Seats (Total: 20)
	Tu 9:30am - 12:00pm	TLF 2103

HIST429N **Special Topics in History; The Aztecs: Human Sacrifice and Conquest**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as LASC448J, PHIL428N, and RELS419J. Credit granted for HIST429N LASC448J, PHIL428N, or RELS419J. We examine the philosophical worldview and daily life of the Aztecs as as well as arguments concerning the legitimacy of the Conquest.

0101	James Maffie	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	KEY 1117

HIST430 **Tudor England**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An examination of the political, religious, and social forces in English life, 1485-1603, with special emphasis on Tudor government, the English reformation, and the Elizabethan era.

0101	Sabrina Baron	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	KEY 0126

HIST453 **Diplomatic History of the United States from 1914**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

American foreign relations in the 20th century. World War I, the Great Depression, World War II, the Cold War, the Korean War, and Vietnam. A continuation of HIST452.

0101	Colleen Woods	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 1117

HIST466 **Immigration and Ethnicity in the U.S.**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AAST200, AAST201, AAST222, HIST200, HIST201, HIST221, or HIST222; or must have completed HIST156 or HIST157; or permission of ARHU-History department. Credit only granted for: AAST498L or HIST466.

Seminar exploring historical problems relating to US immigration, race, and ethnicity since 1848, with emphasis on cultural impacts of migration on immigrants, their children, and U.S. society.

0101	Julie Greene	Seats (Total: 15)
	M 1:00pm - 3:30pm	TLF 2103

HIST469A **Study Abroad Special Topics IV; Ancient Chinese History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST477 **Transnational Blackness in the Americas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The African diaspora is a concept that attempts to comprehend the shared experiences of African-descended peoples throughout the world, particularly in the Americas. While many of these peoples identify with a particular nationality (being Brazilian, Cuban, or from the United States above or alongside being black, of color, or of African descent), many of them have forged connections with each other across national boundaries and recognized commonalities that transcend their national contexts. This class will use fiction, memoir, and recent historical scholarship to explore the history of the links that Afro-Latin American and Afro-North Americans have created in the nineteenth and twentieth centuries. Ultimately, the course will help us understand the historical possibilities and limitations of conceiving of African Americans as a hemispheric, transnational social group.

0101	David Sartorius	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	KEY 0117

HIST481 **A History of Modern China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Modern China from 1644 to the People's Republic of China. Emphasis on the coming of the West to China and the various stages of the Chinese reaction.

0101	James Gao	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	KEY 0116

HIST482 **History of Japan to 1800**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Traditional Japanese civilization from the age of Shinto mythology and introduction of continental learning down to the rule of military families, the transition to a money economy, and the creation of a townsmen's culture. A survey of political, economic, religious, and cultural history.

0101	Louisa Rubinfien	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	SQH 1103

HIST491 **History of the Ottoman Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Survey of the Ottoman Turkish Empire from 1300 A.D. to its collapse during World War I. Emphasis on the empire's social and political institutions and its expansion into Europe, the Arab East and North Africa.

0101	Madeline Zilfi TuTh 9:30am - 10:45am	Seats (Total: 32) KEY 0116

HIST492 **Women and Society in the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Must have completed prior coursework in Middle East studies or gender studies. Also offered as: WMST456. Credit only granted for: HIST492 or WMST456.

Examines the customs, values, and institutions that have shaped women's experience in the Middle East in the past and in the contemporary Middle East.

0101	Madeline Zilfi Th 3:30pm - 6:00pm	Seats (Total: 15) TLF 2103

HIST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST601 **History and Contemporary Theory**

Credits: 3 Grading Method: Regular, Audit

An introduction to contemporary theories in philosophy, literary criticism, cultural studies, anthropology, and other fields; and analysis of their usefulness to historians.

0101	Stefano Villani Tu 3:30pm - 6:00pm	Seats (Total: 15) TLF 2100

HIST607 **The Teaching of History in Institutions of Higher Learning**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

0101	Ahmet Karamustafa Contact instructor or department for details.	Seats (Total: 15)
0201	David Freund Contact instructor or department for details.	Seats (Total: 6)

HIST608A **General Seminar; American History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

Prerequisite: permission of department.

0101	Whitman Ridgway Tu 6:00pm - 8:30pm	Seats (Total: 15) TLF 2103

HIST619A **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619B **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619C **Special Topics in History; Cosmopolitanism and Empire in the Ancient Mediterranean and Near East**

Credits: 3 Grading Method: Regular, Audit

This seminar explores the relationship between cosmopolitanism and empire in Antiquity. It traces the distinctive forms of cultural self-understanding adopted by the ruling lites of the Assyrian, Achaemenian, Seleukid, Roman and Iranian empires.

0101	John Weisweiler Tu 6:00pm - 8:30pm	Seats (Total: 7) TLF 2108

HIST619E **Special Topics in History; From Colonization to Decolonization in North Africa, 1830-1962**

Credits: 3 Grading Method: Regular, Audit

0101	Peter Wien Tu 9:30am - 12:00pm	Seats (Total: 5) TLF 2103

HIST619K **Special Topics in History; Sexualities in the Atlantic World and Beyond**

Credits: 3 Grading Method: Regular, Audit

0101	Clare Lyons W 3:30pm - 6:00pm	Seats (Total: 12) TLF 2103

HIST619M **Special Topics in History; Readings in Nineteenth Century US History**

Credits: 3 Grading Method: Regular, Audit

0101	Michael Ross Th 3:30pm - 6:00pm	Seats (Total: 12) TLF 2100

HIST619V **Special Topics in History; Women and Society in the Middle East**

Credits: 3 Grading Method: Regular, Audit

0101	Madeline Zilfi Th 3:30pm - 6:00pm	Seats (Total: 5) TLF 2103

HIST619X **Special Topics in History; History of North American Slavery in the Comparative Perspective**

Credits: 3 Grading Method: Regular, Audit

0101	Ira Berlin W 3:30pm - 6:00pm	Seats (Total: 12) TLF 2101

HIST619Y **Special Topics in History; History of the Ottoman Empire**

Credits: 3 Grading Method: Regular, Audit

0101	Madeline Zilfi	Seats (Total: 5)
	TuTh 9:30am - 10:45am	KEY 0116

HIST619Z **Special Topics in History; Middle East Studies Graduate Colloquium**

Credits: 1 Grading Method: Regular, Audit

Also offered as JWST699N. Credit granted for HIST619Z or JWST699N. Contact instructor for information, pwien@umd.edu.

0101	Instructor: TBA	Seats (Total: 20)
	Contact instructor or department for details.	

HIST638A **Special Topics in History; The Long 20th Century: Politics, Culture, and Institutions in U.S. History**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

0101	David Freund	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	TLF 2103

HIST639I **Special Topics in History; Race and Ethnicity in the Americas**

Credits: 3 Grading Method: Regular, Audit

Special Topics in History.

0101	Karin Rosemblatt	Seats (Total: 12)
	W 3:30pm - 6:00pm	TLF 2100

HIST708 **Directed Independent Reading for Comprehensive Examinations I**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST709 **Directed Independent Reading for Comprehensive Examinations II**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST720 **Readings in the History of the Catholic Church**

Credits: 3 Grading Method: Regular, Audit

This is graduate-level readings seminar in the modern history of the Catholic Church. We will begin with the Reformation and proceed through the present day. This course will combine European history with global history, looking both at how the Church changed in the face of major turning points in modern European history (the Scientific, French, and Russian Revolutions; the two world wars; and the Cold War) and at its missionary encounters and long-term presence across the world (in Latin America, India, China, Africa, and North America).

0101	Piotr H Kosicki	Seats (Total: 12)
	Tu 6:00pm - 8:30pm	TLF 2101

HIST779E **Readings in Middle Eastern History; Approaching Early Islam**

Credits: 3 Grading Method: Regular, Audit

This course focuses on the first centuries of Islam and addresses the many methodological challenges facing the historian eager to approach the period.

0101	Antoine Borrut	Seats (Total: 12)
	W 3:30pm - 6:00pm	Location: TBA

HIST799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HIST810 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: ANTH856, AMST856. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Elsa Barkley Brown W 4:00pm - 6:40pm	Seats (Total: 15) TWS 1313

HIST811 **Museum Scholarship Practicum**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: ANTH857, AMST857. Credit only granted for: ANTH 857, AMST857 or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0101	Mary Alexander Contact instructor or department for details.	Seats (Total: 3)
0401	Mary Sies Contact instructor or department for details.	Seats (Total: 3)

HIST819A **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST819B **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST819M **Special Topics in History: Independent Research; Research in U.S. History, 1850 to the Present**

Credits: 3 Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

0101	Leslie Rowland	Seats (Total: 12)
	W 6:00pm - 8:30pm	TLF 2100

HIST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HLMN Hillman Entrepreneurs Program Fall 2017

HLMN470 **Fundamentals of Entrepreneurial Ventures**

Credits: 3 Grading Method: Regular

Restriction: Restricted to students in the Hillman Entrepreneurs Program. Credit only granted for: HLMN470, ENES460 or BMGT461. Additional information: HLMN470 may not count toward any BMGT major or minor degree.

Learn the processes and skills needed to launch and manage start-up ventures, including technology startups. Assess the feasibility of a startup ventures, as well as how to apply best practices for planning, launching, and managing new companies by using real-world examples and in-depth case studies. Discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunity, assess the skills and talents of successful entrepreneurs, and learn models and approaches that help navigate uncertainty.

0101	Gul Branco	Seats (Total: 75)
	F 1:00pm - 3:30pm	ESJ 1215

HLMN472 **Strategies for Innovation & Entrepreneurship**

Credits: 3 Grading Method: Regular

Restriction: Restricted to students in the Hillman Entrepreneurs Program. Credit only granted for: HLMN472, BMGT467, or ENES463. Additional information: HLMN472 may not count toward any BMGT major or minor degree.

Understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and how to create new value not only through new products or services, but with novel technologies, business concepts, organizing structures, transaction/financing mechanisms, distribution channels, and market segmentation. Challenge students to think about how to create value and build a productive business organization with available resources (e.g. intelligence, insight, energy, initiative and personal relationships).

0101	Adam Zuckerman F 1:00pm - 3:30pm	Seats (Total: 75) TWS 0310	

HLSA Health Services Administration Fall 2017

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

0101	Dylan Roby MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) ESJ 0202 KEY 0116	 Discussion
0102	Dylan Roby MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 20) ESJ 0202 KEY 0116	 Discussion
0103	Dylan Roby MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 20) ESJ 0202 TWS 1313	 Discussion

0104	Dylan Roby MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 20) ESJ 0202 HBK 0123	 Discussion
0105	Dylan Roby MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) ESJ 0202 JMZ 1117	 Discussion
0106	Dylan Roby MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) ESJ 0202 SPH 0303	 Discussion
0107	Dylan Roby MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) ESJ 0202 SPH 0303	 Discussion
SG91	Negin Fouladi M 2:00pm - 4:30pm *Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.*	Seats (Total: 35) BLD3 2203	

HLSA484 **Redesigning Health Care: Developing a Clinic to Meet Community Needs**

Credits: 3 Grading Method: Regular

Restriction: Must have completed a minimum of 60 credits. Additional information: Two sessions will be on-site at the Mona Clinic in Temple Hills, MD, and the remaining sessions will be taught in the University of Maryland's Academy for Innovation and Entrepreneurship.

Provides an opportunity for students to learn a key entrepreneurial skill, Design Thinking, while helping to build, reshape, redesign and transform delivery of health care in the Mona Center, a new community center and clinic in Prince George's County. This new, modern vision for a health and wellness clinic embraces student involvement in designing, planning and contributing to innovative programs, solutions, and processes to improve the clinic's ability to meet community and patient needs by addressing the social determinants of health as well as traditional clinical health status. Students in the class will develop empathy for patients, providers and other stakeholders, define problems, select a specific problem for intervention, understand problems based on stakeholder input, ideate, reframe and suggest options to solve or address the problem, prototype solutions, test ideas, and make recommendations to inform implementation and ongoing measurement and monitoring of impact.

0101	Stephen Thomas, Susan Passmore F 10:00am - 12:30pm	Seats (Total: 20) ESJ 2101	

HLSA601 **Introduction to Health Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed HLTH740. Credit only granted for: HLSA601, HLTH688A, or HLTH740. Formerly: HLTH688A or HLTH740.

Management and leadership skills for effective public health planning, organization, management and administration. Emphasis is on the role of institutions in learning and behavioral change process, organizational theory, administration management, and coordinating provision of community health services.

0102	Andrew Fenelon M 4:00pm - 6:45pm	Seats (Total: 60) SPH 1303
PLH1	Negin Fouladi Class time/details on ELMs	Seats (Total: 35) ONLINE

Restricted to students in MPH-PHPP or GC-PPH programs.

HLSA611 **Introduction to Health Equity**

Credits: 3 Grading Method: Regular

The emerging field of health equity is concerned with understanding the causes and consequences of social disparities in population health. This course is designed to expose students to the foundational issues in health equity from a variety of perspectives. Through weekly meetings and discussion, students will develop familiarity with the major literature in the field of health equity. The course is divided into three sections: (1) Understanding & Addressing Health Disparities; (2) Disparity Populations; and (3) Solutions in Health Equity. Students will gain understanding of the dimensions and sources of health inequality, including race/ethnicity, socioeconomic status, gender, nativity, and sexual minority status. Current policy debates and recent policy developments related to health equity are also briefly discussed.

0101	Andrew Fenelon W 7:00pm - 9:45pm	Seats (Total: 20) SPH 0305

HLSA688 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

HLSA689 **Field Work in Aging**

Credits: 1-6 Grading Method: Regular

Individual instruction course.

0201	Lori Simon-Rusinowitz	Seats (Total: 5)
	Contact instructor or department for details.	

HLSA702 **Policy and Politics of Health**

Credits: 3 Grading Method: Regular, Audit

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

0101	Lori Simon-Rusinowitz	Seats (Total: 20)
	W 1:00pm - 3:45pm	SPH 0301

HLSA703 **Seminar in Health Equity**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations and discussion of contemporary literature in the areas of health disparities and health equity, social determinants, (eg. race, ethnicity, sex, age, sexual identity, disability, socioeconomic status, and geographic location) and policies and programs to address disparities. The emphasis is on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	Dylan Roby	Seats (Total: 20)
	Th 12:00pm - 12:50pm	CHM 0124

HLSA709 **Graduate Seminar**

Credits: 1 Grading Method: Sat-Fail, Audit

The purpose of the course is for doctoral students to present their work on their dissertation to fellow doctoral students and faculty in an informal supportive environment. Faculty and students provide feedback and suggestions that are helpful to the presenting students.

0101	Luisa Franzini	Seats (Total: 10)
	Th 12:00pm - 12:50pm	Location: TBA

HLSA711 **Health Economics and Analysis**

Credits: 3 Grading Method: Regular, Audit

Provides an analysis of health and health care services as economic goods. Using microeconomic theories, we will examine the behavior of health care providers, consumers, markets, and firms.

0101	Jie Chen M 4:00pm - 6:45pm	Seats (Total: 20) SPH 0301
PLH1	Farah Farahati Class time/details on ELMs *Restricted to students in MPH-PHPP or GC-PPH programs.*	Seats (Total: 35) ONLINE

HLSA713 **Seminar in Health Policy**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations of contemporary literature in the areas of health policy, health care reform in the nation and Maryland, and evaluation of health policies and programs. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	Dylan Roby Th 12:00pm - 12:50pm	Seats (Total: 20) CHM 0124

HLSA720 **Health Law and Ethics**

Credits: 3 Grading Method: Regular, Audit

The legal system helps determine the relationships prevailing among individuals, institutions and governments by setting out the rights, duties and powers of the various parties. This course will look at some of the more important concepts the law uses within the context of health services and public health.

0101	Mathew Swinburne Tu 4:00pm - 6:45pm	Seats (Total: 25) ANS 0412
PLH1	Arthur Reynolds Class time/details on ELMs *Restricted to students in MPH-PHPP or GC-PPH programs.*	Seats (Total: 35) ONLINE

HLSA721 **Using Demographic Data for Health Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650; or students who have taken courses with comparable content may contact the department; or permission of instructor. Additional information: Priority enrollment will be given to students in the Department of Health Services Administration programs.

The goal of this course is to introduce students to the major demographic data sets that are used in health policy research and to provide hands-on experience using these data to answer policy oriented research questions

0101	Michel Boudreaux Th 4:00pm - 6:45pm	Seats (Total: 20) SPH 0301

HLSA725 **Econometrics in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650; or students who have taken courses with comparable content may contact the department. Additional information: priority enrollment will be given to students at the School of Public Health.

Empirical course to introduce students to econometric methods and their applications in public health.

0101	Luisa Franzini W 4:45pm - 7:30pm	Seats (Total: 20) SPH 1303

HLSA745 **Public Health Practice and Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Examines the relationship of practice and management in performing essential public health services on local, state and national levels.

PLH1	Joseph Flannery Class time/details on ELMs *Restricted to students in MPH-PHPP or GC-PPH programs.*	Seats (Total: 35) ONLINE

HLSA770 **Continuous Quality Improvement in Healthcare**

Credits: 3 Grading Method: Regular, Audit

Designed for the health care professional or administrator involved in quality assurance in health care. Course includes historical beginnings, state-of-the-art, voluntary, governmental efforts, and tools to promote quality assurance.

0101	Robert Mekelburg M 7:00pm - 9:45pm	Seats (Total: 20) SPH 0301

HLSA772 Healthcare Leadership and Communications

Credits: 3 Grading Method: Regular, Audit

Health care administrators rely on transformational leadership skills and insights to help their organizations rise to the social financial, public health, and technological challenges of the future. Students will assess and develop their leadership strengths, apply key leadership communication principles, and critically analyze relevent leadership models, exploring their utility in addressing key leadership issues in health care organizations. An underlying theme will be the identification of core values involved in health care delivery, integration of those values in personal and organizational missions, and effective communication to stakeholders.

PCH1	Tracey Manning	Seats (Total: 25)	
	Class time/details on ELMs Sa 9:00am - 6:00pm Su 9:00am - 4:00pm	ONLINE Location: TBA Location: TBA	 Discussion Discussion
	Restricted to students in MPH-PHPP or GC-PPH programs. Class discussions are scheduled to meet at the College Park Campus as follows: Sep 9, 9-5pm; Sep 10, 9-4pm; Oct 28, 9-5pm; Dec 2, 9-5pm; Dec 3, 9-4pm.		

HLSA775 Public Health Research

Credits: 3 Grading Method: Regular

Prerequisite: EPIB650. Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Provides an interdisciplinary approach to gaining an understanding of and acquiring the skills to conduct public health research. This course covers policy and social issues, theory, and methods of evaluation and participatory research, from simple community based health programs to large-scale interventions. The course emphasizes experimental and quasi-experimental designs to estimate program impact as well as evaluation of program implementation. Case studies drawn from the public health field illustrate various types of evaluations and participatory research initiatives. Lectures, interactive discussions, group projects, individual projects and related assignments.

0101	Eva DuGoff Tu 7:00pm - 9:45pm	Seats (Total: 25) SPH 0302

HLSA780 **Qualitative Methods for Health Services Research**

Credits: 3 Grading Method: Regular, Audit

Qualitative research is a multi-methods approach to the study of social interactions in natural settings. Through triangulation of methods, the researcher attempts to make sense of, or interpret, phenomema in terms of the meanings people bring to them.

0101	Lori Simon-Rusinowitz F 3:00pm - 5:45pm	Seats (Total: 15) SPH 0301

HLSA785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department. Credit only granted for: HLSA785 or HLSA778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 5)
0301	Neil Sehgal Contact instructor or department for details.	Seats (Total: 5)
0401	Andrew Fenelon Contact instructor or department for details.	Seats (Total: 5)
0501	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)
0601	Dylan Roby Contact instructor or department for details.	Seats (Total: 5)
0701	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)

0801	Stephen Thomas Contact instructor or department for details.	Seats (Total: 5)
0901	Jie Chen Contact instructor or department for details.	Seats (Total: 5)
PLH1	Negin Fouladi Contact instructor or department for details. *Restricted to students in MPH-PHPP program.*	Seats (Total: 20)

HLSA786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLSA798 **HLSA Journal Club**

Credits: 1 Grading Method: Sat-Fail, Audit

The course will highlight current topics in health services research. Outside speakers will present their research in a few of the classes. For the other classes, graduate students in the HLSA programs will select important and timely articles that they will present to the class for discussion in an informal setting.

0101	Jie Chen Th 12:00pm - 12:50pm	Seats (Total: 10) Location: TBA

HLSA799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSC Integrated Life Sciences Fall 2017

HLSC100 **Students in the University: Integrated Life Sciences**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: EDCP108O, HLSC100, HONR100, or UNIV100H.

In a small classroom setting, Integrated Life Sciences students learn about academic resources on and off campus.

0101	Zabrina Anzyl Tu 2:00pm - 3:30pm	Seats (Total: 33) LPA 0100
	For students in the Honors College Integrated Life Sciences Program only.	
0102	Zabrina Anzyl W 2:00pm - 3:30pm	Seats (Total: 33) LPA 0100
	For students in the Honors College Integrated Life Sciences Program only.	
0103	Zabrina Anzyl Th 2:00pm - 3:30pm	Seats (Total: 33) LPA 0100

HLSC207 **Principles of Biology III Organismal Biology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: BSCI207, BSCI279D, or HLSC207.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

0101	Todd Cooke MWF 9:00am - 9:50am	Seats (Total: 96) CCC 1205

HLSC374 **Mathematical Modeling in Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH131, MATH136, or MATH141. Restriction: Must be in a major in UGST-HCOL-Integrated Life Sciences Program. Also offered as: BSCI374. Credit only granted for: BSCI374, BSCI474, or HLSC374.

Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.

0101	Jonathan Simon	Seats (Total: 10)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

HLTH Health Fall 2017

HLTH106 **Drug Use and Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106H.Credit granted for HLTH106 or HLTH106H. Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Neha Trivedi	Seats (Total: 125)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH106H **Drug Use and Abuse**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106. Credit granted for HLTH106 or HLTH106H.

0101	Neha Trivedi	Seats (Total: 125)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH130 **Introduction to Public and Community Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Restriction: Must not have completed HLTH105; and non-majors must have 45 or fewer credits. Credit only granted for: HLTH105 or HLTH130. Formerly: HLTH105.

An introduction to the theory and practice of public and community health. The influence of public health professionals on the past, present, and future health status of society through the examination of critical health issues will be described. Programming models, theories and policy development are included.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Donna Howard	Seats (Total: 120)
	TuTh 2:00pm - 3:15pm	SPH 1312

HLTH140 **Personal and Community Health**

Credits: 3 | Grading Method: Regular, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140H. Credit granted for HLTH140 or HLTH140H.

0101	James Butler	Seats (Total: 200)
	TuTh 9:30am - 10:45am	SPH 1312

HLTH140H **Personal and Community Health**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140. Credit granted for HLTH140 or HLTH140H.

0101	James Butler	Seats (Total: 200)
	TuTh 9:30am - 10:45am	SPH 1312

HLTH200 **Introduction to Research in Community Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Community Health program.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

0101	Azieb Kidanu	Seats (Total: 120)
	MWF 2:00pm - 2:50pm	ESJ 2204

HLTH230 **Introduction to Health Behavior**

Credits: 3 Grading Method: Regular, Audit CORE: SB General Education: DSHS

Prerequisite: Must have completed or be concurrently enrolled in HLTH130.

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Craig Fryer	Seats (Total: 120)
	TuTh 3:30pm - 4:45pm	SPH 1312

HLTH234 **Global Health Messages: Understanding Exposure & Impact.**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVCC, SCIS

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

0101	Dina Borzekowski	Seats (Total: 40)
	Tu 3:30pm - 6:15pm	HJP 2242

HLTH246 **The U.S. Tobacco Epidemic**

Credits: 3 Grading Method: Regular, Audit

Tobacco is the leading cause of preventable death in the U.S. Course provides an overview of the tobacco epidemic including history, health effects, economic costs, policy, surveillance, and prevention, in addition to additional products like e-cigarettes, vaping and hookahs. .

0101	Azieb Kidanu	Seats (Total: 40)
	MWF 9:00am - 9:50am	SPH 1303

HLTH285 **Controlling Stress and Tension**

Credits: 3 Grading Method: Regular, Audit CORE: IE General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

Also offered as HLTH285H. Credit granted for HLTH285 or HLTH285H. Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Hannah Allen	Seats (Total: 75)
	TuTh 8:00am - 9:15am	SPH 1303

HLTH285H **Controlling Stress and Tension**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

Also offered as HLTH285. Credit granted for HLTH285 or HLTH285H.

0101	Hannah Allen	Seats (Total: 75)
	TuTh 8:00am - 9:15am	SPH 1303

HLTH289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH300 **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300H. Credit granted for HLTH300 or HLTH300H.

0101	Dina Borzekowski	Seats (Total: 100)
	TuTh 9:30am - 10:45am	BPS 1243

HLTH300H **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300. Credit granted for HLTH300 or HLTH300H.

0101	Dina Borzekowski	Seats (Total: 100)
	TuTh 9:30am - 10:45am	BPS 1243

HLTH301 **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in Community Health program. Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301H. Credit granted for HLTH301 or HLTH301H.

0101	Natalie Slopen Th 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 75) ESJ 2309 ONLINE

HLTH301H **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in Community Health program. Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301. Credit granted for HLTH301 or HLTH301H.

0101	Natalie Slopen Th 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 75) ESJ 2309 ONLINE

HLTH325 **Poor in America: Health and Wellbeing**

Credits: 3 Grading Method: Regular, Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow TuTh 3:30pm - 4:45pm	Seats (Total: 32) SPH 0307

HLTH325H **Poor in America: Health and Wellbeing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow TuTh 3:30pm - 4:45pm	Seats (Total: 1) SPH 0307	

HLTH366 **Behavioral and Community Issues in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

0101	Evelyn King-Marshall MW 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 21) HJP 0226 JMZ 1215	Discussion
0102	Evelyn King-Marshall MW 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 21) HJP 0226 CHE 2116	Discussion
0103	Evelyn King-Marshall MW 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 21) HJP 0226 CHE 2116	Discussion
0104	Evelyn King-Marshall MW 2:00pm - 2:50pm Th 9:30am - 10:20am	Seats (Total: 21) HJP 0226 ANS 0402	Discussion
0105	Evelyn King-Marshall MW 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 21) HJP 0226 HBK 0105	Discussion
0106	Evelyn King-Marshall MW 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 21) HJP 0226 CHE 2136	Discussion

0107	Evelyn King-Marshall MW 2:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 21) HJP 0226 PLS 1164	Discussion

HLTH371 **Communicating Safety and Health**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

The communication and evaluation of safety and health information. Emphasis on various types of communications and recipient factors which contribute to their success or failure.

Also offered as HLTH371H. Credit granted for HLTH371 or HLTH371H.

0101	Daisy Le Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm *Restriction: Must be a major in Behavioral and Community Health departm ent.*	Seats (Total: 40) LEF 2166 SPH 1303	
0201	Daisy Le Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm *Restriction: Must be a Public Health Science major.*	Seats (Total: 54) LEF 2166 SPH 1303	

HLTH371H **Communicating Safety and Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

The communication and evaluation of safety and health information. Emphasis on various types of communications and recipient factors which contribute to their success or failure.

0101	Daisy Le Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 5) LEF 2166 SPH 0307	

HLTH377 **Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377H. Credit granted for HLTH377 or HLTH377H.

0101	Jenna Messman TuTh 11:00am - 12:15pm	Seats (Total: 200) ARM 0126
SG91	Robin Sawyer Class time/details on ELMs	Seats (Total: 120) ONLINE
	Restricted to Junior BMGT-Shady Grove students in Accounting and Marketing. This section is taught on-line, but there are three exams that will be held on campus from 3:30-4:15pm on the following dates, Wednesday, September 27, Wednesday November 1, and December 6. These exam dates and teims are non-negotiable. Classroom for exam will be announced.	

HLTH377H **Human Sexuality**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377. Credit granted for HLTH377 or HLTH377H.

0101	Jenna Messman TuTh 11:00am - 12:15pm	Seats (Total: 200) ARM 0126

HLTH386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

HLTH389 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH391 **Principles of Community Health I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: HLTH140, HLTH230, HLTH300, and BSCI202. Corequisite: HLTH301. Restriction: Must be in Community Health program.

Broad overview of community health. Health promotion, consumer health, public health, school health, environmental health, preventive medicine, human biology and the health care system are examined. Each area's contribution to community health is discussed.

Both sections (0101, 0201) shared with HLTH391H.

0201	James Butler, Sharon Desmond TuTh 12:30pm - 1:45pm	Seats (Total: 65) CCC 1100

HLTH391H **Principles of Community Health I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: HLTH140, HLTH230, HLTH300, and BSCI202. Corequisite: HLTH301. Restriction: Must be in Community Health program.

Broad overview of community health. Health promotion, consumer health, public health, school health, environmental health, preventive medicine, human biology and the health care system are examined. Each area's contribution to community health is discussed.

0201	Sharon Desmond, James Butler TuTh 12:30pm - 1:45pm	Seats (Total: 5) CCC 1100

HLTH410 **Honors Seminar**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: HLTH200; and must have completed 2 other courses in HLTH. Restriction: Minimum cumulative GPA of 3.5; and must have completed 45 credits before applying.

Undergraduate majors with a strong academic record are provided the opportunity to engage in challenging educational experiences related to the social and behavioral aspects of public health. Students will learn the skills and knowledge to develop, propose, defend, and complete an honors thesis or honors project.

0101	Kerry Green M 12:00pm - 3:00pm	Seats (Total: 12) Location: TBA

HLTH420 **Effective Strategies for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit | General Education: FSOC

Prerequisite: Minimum grade of C- in HLTH301 and HLTH391. Corequisite: HLTH490.

The purpose of this course is to present the interrelationships of curriculum planning, methodology and the selection and use of successful public health presentation strategies. Special problems associated with public health presentations are discussed, and students become familiar with a variety of resources as well as with planning for and implementing demonstration presentations.

0101	M Reynolds TuTh 9:30am - 10:45am	Seats (Total: 20) SPH 0303
0201	M Reynolds TuTh 11:00am - 12:15pm	Seats (Total: 20) SPH 0301
0301	M Reynolds TuTh 12:30pm - 1:45pm	Seats (Total: 20) SPH 0308

HLTH434 **Introduction to Public Health Informatics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Community Health; Public Health Science) ; and must have earned a minimum of 60 credits. Credit only granted for: HLTH434 or HLTH498E. Formerly: HLTH498E.

Provides an overview of the field of public health informatics and the influence of technology on the public's health and well-being. Emphasizes the application of various technologies and computer/internet applications to support public health research and practice, including strategies to address new and emerging threats.

0101	Sandra Saperstein W 4:00pm - 6:45pm *Restriction: Must be a major in Behavioral and Community Health departm ent.*	Seats (Total: 20) SPH 0308
0201	Sandra Saperstein W 4:00pm - 6:45pm *Restriction: Must be a Public Health Science major.*	Seats (Total: 20) SPH 0308

HLTH460 **Minority Health**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140, HLTH230, or HLTH366; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460H. Credit granted for HLTH460 or HLTH460H.

0101	Mary Garza W 4:00pm - 6:45pm *Restriction: Must be a major in Behavioral and Community Health departm ent.*	Seats (Total: 25) SPH 1302
0201	Mary Garza W 4:00pm - 6:45pm *Restriction: Must be a Public Health Science major.*	Seats (Total: 15) SPH 1302

HLTH460H **Minority Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140, HLTH230, or HLTH366; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460. Credit granted for HLTH460 or HLTH460H.

0101	Mary Garza W 4:00pm - 6:45pm	Seats (Total: 25) SPH 1302
0201	Mary Garza W 4:00pm - 6:45pm	Seats (Total: 15) SPH 1302

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, Audit , D

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department; or must be in a major within the ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLTH471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

Also offered as: HLTH471H. Credited granted for HLTH471, HLTH471H, or WMST471. Recommended for junior and senior women.

0101	Kirsten Stoebenau MWF 10:00am - 10:50am *Restriction: Must be a major in Behavioral and Community Health departm ent; or must be in a major within ARHU-Women's Studies department.*	Seats (Total: 30) SPH 1303
0201	Kirsten Stoebenau MWF 10:00am - 10:50am *Restriction: Must be a Public Health Science major.*	Seats (Total: 40) SPH 1303

HLTH471H **Women's Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department; or must be in a major within the ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLTH471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

Also offered as: HLTH471. Credited granted for HLTH471, HLTH471H, or WMST471.

0101	Kirsten Stoebenau MWF 10:00am - 10:50am	Seats (Total: 30) SPH 1303
0201	Kirsten Stoebenau MWF 10:00am - 10:50am	Seats (Total: 40) SPH 1303

HLTH489 **Field Laboratory Projects and Workshop**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

Contact department for information to register for this course.

HLTH490 **Principles of Community Health II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH391, BSCI170, BSCI171, and BSCI201. Corequisite: HLTH420. Restriction: Must be in Community Health program.

The development of skills necessary for joining the public health work force post-graduation, as well as assistance in obtaining an appropriate internship that will serve as a final semester, capstone experience. Students will be exposed to various relevant professional experiences, and will be afforded the opportunity to strengthen their own individual skills by selecting from a menu of skills-based learning modules that best suit their perceived needs.

0101	Sylvette La Touche-Howard TuTh 11:00am - 12:15pm	Seats (Total: 20) CHE 2145
0201	Tracy Zeeger MW 12:30pm - 1:45pm	Seats (Total: 20) PLS 1184
0301	Sylvette La Touche-Howard TuTh 12:30pm - 1:45pm	Seats (Total: 20) CHE 2145

HLTH491 **Community Health Internship**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Prerequisite: Must have completed HLTH490 with a C- or higher. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.

Integrating theory with practice in a community health setting.

Class will meet on Wednesdays 1:00-3:15pm (August 30, September 20, November 1, December 6) in CCC 1205.

0101	Tracy Kennedy W 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 70) Location: TBA

HLTH498P **Special Topics in Health; Pregnancy Counseling**

Credits: 3 Grading Method: Regular

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH606 **Foundations of Public Health Education and Policy**

Credits: 3 Grading Method: Regular

Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program.

Examines foundations and content of two professions, health education and public health, including history, mission, terminology, philosophy, ethical principles and scientific foundations. Emerging and reemerging threats to the public's health will be discussed, as well as societal influences on health and health policy. Also addresses professional competencies and preparation, and the role of professional organizations.

0101	Craig Fryer M 4:00pm - 6:45pm	Seats (Total: 25) SPH 0303

HLTH652 **Quantitative Research Methods I in Public health**

Credits: 3 Grading Method: Regular

Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program. Credit only granted for: HLTH652 or HLTH688R. Formerly: HLTH688R.

Intermediate statistics and procedures in public health-related researc for doctoral students. Focuses on applied statistics rather than theoretical, with emphasis on 1) how to apply statistical models, 2) how to perform the analysis with avialable software, and 3) how to interpret findings.

0101	Min Wang Tu 4:00pm - 6:45pm	Seats (Total: 10) SPH 0301

HLTH665 **Health Behavior I**

Credits: 3 Grading Method: Regular, Audit

The psychological, social psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behaviors.

0101	Donna Howard W 4:00pm - 6:45pm	Seats (Total: 25) SPH 0305
0201	Sharon Desmond W 4:00pm - 6:45pm	Seats (Total: 25) JMP 3202

HLTH672 **Public Health Informatics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Instructor permission is required for students not enrolled in a degree seeking program in the School of Public Health. Also offered as: EPIB672. Credit only granted for: HLTH670 or HLTH671, HLTH672, EPIB 672. Formerly: HLTH670. Additional information: Course hashtag - #umdphi12.

A basic overview of Informatics and its application in a public health setting. The major goal is for students to understand the basic tools and building blocks needed to utilize this technology in order to improve their professional productivity

0101	Robert Gold, Sandra Saperstein Tu 7:00pm - 9:45pm	Seats (Total: 25) SPH 0307

HLTH688 **Special Problems in Health Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH688L **Special Problems in Health Education; Health Literacy**

Credits: 3 Grading Method: Regular, Audit

0101	Cynthia Baur Tu 4:00pm - 6:45pm	Seats (Total: 25) SPH 1234A

HLTH710 **Methods and Techniques of Research**

Credits: 3 Grading Method: Regular, Audit

For Health majors only.

0101	Kenneth Beck	Seats (Total: 25)
	Tu 4:00pm - 6:45pm	SPH 1301

HLTH712 **Applied Research Methods in Behavioral and Community Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710.

Designed to build on the research skills obtained in HLTH710 and other fundamental research methods and statistics courses. Methods and problems that are commonly encountered in health education research will be discussed including examination of actual research studies. Complex behavioral research issues will be addressed with existing research data sets. With these data sets, students will develop an analytic plan and conduct data analysis.

0101	Bradley Boekeloo	Seats (Total: 10)
	M 4:00pm - 6:45pm	PLS 1162

HLTH776 **Community Health Program Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710 and HLTH774. Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or permission of instructor. Credit only granted for: HLTH775 or HLTH774 and HLTH776. Formerly: HLTH775.

An application of basic research methods, and the evaluation of community health programs. Students will evaluate the effectiveness of a community health intervention.

0101	Amelia Arria	Seats (Total: 25)
	Th 4:00pm - 6:45pm	SPH 0225

HLTH785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH665, HLTH775, and HLTH780; or permission of SPHL-Behavioral & Community Health department. Credit only granted for: HLTH785 or HLTH778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Class meets on Mondays 7:00-9:00pm (August 28, October 2, December 4).

0101	Tracy Zeeger	Seats (Total: 15)
	M 7:00pm - 9:00pm Contact instructor or department for details.	SPH 1234A

HLTH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HONR Honors Fall 2017

HONR100 **Honors Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Permission of University Honors Program.

Attendance at various additional activities and events is required. Reading and discussion on the personal and social value of higher education; development of a coherent general education program; exploration of the educational and cultural resources of the campus and metropolitan area; participation in a community service project; and other activities designed to broaden students' conception of what it means to be an educated person.

HONR100 is restricted to first semester University Honors students only.

0101	Liza Lebrun, Jamie Welch M 4:00pm - 5:30pm	Seats (Total: 16) KEY 0107
0102	Jamie Welch, Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) SQH 1125
0103	Jamie Welch, Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) WDS 1127
0104	Jamie Welch, Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) KEY 0117
0105	Jamie Welch, Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) HBK 0103
0106	Liza Lebrun, Jamie Welch M 4:00pm - 5:30pm	Seats (Total: 16) HAG 1112
0107	Liza Lebrun, Jamie Welch M 4:00pm - 5:30pm	Seats (Total: 16) BPS 1232
0108	Liza Lebrun, Jamie Welch M 4:00pm - 5:30pm	Seats (Total: 16) LPA 1125
0109	Liza Lebrun, Jamie Welch M 4:00pm - 5:30pm	Seats (Total: 16) HBK 1112
0110	Jamie Welch, Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 16) EGR 3111
0201	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 0122

0202	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) EGR 3111
0203	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 0118
0204	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) KEY 0107
0205	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) KEY 0124
0206	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) HAG 1112
0207	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) HBK 0108
0208	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) PLS 1164
0209	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) ASY 3217
0210	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) TYD 1114
0211	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) ARC 1123
0212	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) Location: TBA
0213	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) LEF 1221
0214	Liza Lebrun, Jamie Welch Tu 3:30pm - 4:45pm	Seats (Total: 16) PLS 1162
0215	Jamie Welch, Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 16) JMZ 1226

0301	Jamie Welch, Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) KEY 0107
0302	Jamie Welch, Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 16) HAG 1125
0303	Liza Lebrun, Jamie Welch W 4:00pm - 5:30pm	Seats (Total: 16) HAG 1112

HONR208L **Honors Seminar; Justice Matters: Law, Literature, and Film**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Sara Schotland TuTh 11:00am - 12:15pm	Seats (Total: 20) PLS 1146

HONR208M **Honors Seminar: Utopia and Dystopia: Reality and Relevance**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU, SCIS

0101	Sara Schotland Tu 2:00pm - 4:30pm	Seats (Total: 20) WDS 1127

HONR208R **Leonardo and the Science of Art**

Credits: 3 Grading Method: Regular CORE: HA General Education: DSHU, SCIS

0101	Meredith Gill Th 2:00pm - 4:30pm	Seats (Total: 20) ASY 4213

HONR209O **The Science of Sleep and Biological Rhythms**

Credits: 3 Grading Method: Regular CORE: LS General Education: DSNS

0101	David Yager TuTh 12:30pm - 1:45pm	Seats (Total: 20) TYD 2102

HONR217 **Life, The Multiverse and Everything: Developing an Individual Cosmovision**

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHU

In this Honors seminar, students pursue personal cosmologies in light o our contemporary core "Western" scientific world-view and a selection of other ancient and indigenous cosmographies for comparison including those of Mesoamerica, the Inca, the Egyptians or the Chinese.

0101	John Carlson Tu 7:00pm - 9:30pm	Seats (Total: 20) LPA 0124
0201	John Carlson W 7:00pm - 9:30pm	Seats (Total: 20) LPA 0124

HONR218B **Honors Seminar; Making a Difference: The Lives and Words of Leaders Who Shape Our Time**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Kevin Klose TuTh 9:30am - 10:45am	Seats (Total: 20) KNI 1206

HONR218C **Honors Seminar; Love Me, Hate Me, Use Me, Save Me: Our Conflicting Views of**

Credits: 3 Grading Method: Regular General Education: DSHS, DSHU, SCIS

0101	Sarah Balcom MWF 10:00am - 10:50am	Seats (Total: 20) ANS 0402

HONR218J **Honors Seminar; Sustainability and Development: From the Individual to the Global**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Dorith Grant-Wisdom TuTh 2:00pm - 3:15pm	Seats (Total: 20) SQH 2120

HONR218L **Honors Seminar: Language and Mind**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU

0101	Juan Uriagereka MW 11:00am - 12:15pm	Seats (Total: 20) MMH 1304

HONR218M **Honors Seminar; Elements of Music Composition for Non-Majors**

Credits: 3 Grading Method: Regular General Education: DSSP

0101	William Evans Tu 2:00pm - 4:30pm	Seats (Total: 16) PAC 1108
0201	William Evans Tu 5:30pm - 8:00pm	Seats (Total: 16) PAC 1108

HONR218P **Honors Seminar; Immigration: Personal Stories and Policy Changes**

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP, SCIS

0101	Sara Schotland Th 2:00pm - 4:30pm	Seats (Total: 20) EDU 2101

HONR218T **Honors Seminar; Political Theater: On Stage and in Washington**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Nelson Pressley TuTh 9:30am - 10:45am	Seats (Total: 20) ANA 0120

HONR228J **Honors Seminar; The Caribbean Amidst the Global: Interrogating Issues of Pirates and Piracy**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom W 1:00pm - 3:30pm	Seats (Total: 20) ANA 0120

HONR228N **Alleviating Poverty in Developing Countries: The Economics and Challenges of Development Programs**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS

0101	Taryn Devereux TuTh 2:00pm - 3:15pm	Seats (Total: 20) JMZ 0118

HONR228T **Honors Seminar; Journalism and Peace**

Credits: 3 Grading Method: Regular

0101	Colman McCarthy	Seats (Total: 20)
	M 12:00pm - 2:30pm	ANA 0120

HONR229L **Honors Seminar; Climate Change: Science, Economics, and Governance**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Ross Salawitch	Seats (Total: 21)
	MW 5:00pm - 6:15pm	ATL 3408

HONR238C **The Future of Energy and Climate Policy**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP

0101	Tyson Slocum	Seats (Total: 20)
	W 3:00pm - 5:30pm	ESJ 1215

HONR238F **Honors Seminar: From Animal Thoughts to Animal Feelings: Cognitive and Applied Ethology's Understanding of Animals**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSNS

0101	William Stricklin	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ANS 0402

HONR238L **Honors Seminar: Engineering in Ancient Empires**

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Denis Sullivan	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ASY 3207

HONR238P **Honors Seminar; Memory, Imagination, Invention: A Creative Writing Workshop**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Sarah Pleydell	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ANA 0120

HONR238Q **Honors Seminar; Nuclear Waste: The Other Consequences of Nuclear Weapons**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Richard Calabrese TuTh 12:30pm - 1:45pm	Seats (Total: 20) CHE 2118

HONR238R Honors Seminar: Terrorism

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Howard Smead M 4:00pm - 6:30pm	Seats (Total: 15) TLF 1103

HONR239B Honors Seminar: New York City and the American Dream

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU, DVUP

0101	Ingrid Satelmajer TuTh 12:30pm - 1:45pm	Seats (Total: 20) ANA 0120

HONR239D Honors Seminar; Introduction to Printmaking

Credits: 3 Grading Method: Regular General Education: DSSP

Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin MW 3:30pm - 6:00pm	Seats (Total: 12) ASY 1317

HONR248G Honors Seminar; The Origins and Ramifications of Sex and Sexes

Credits: 3 Grading Method: Regular

0101	Heidi Fisher TuTh 11:00am - 12:15pm	Seats (Total: 20) BPS 2249

HONR248H Honors Seminar: From Willowbrook to Attica: Delinquency in the Context of Disability

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, DVUP

0101	Peter Leone M 1:00pm - 3:50pm	Seats (Total: 20) HBK 0103

HONR248J **Honors Seminar; A Most Human Nation**

Credits: 3 Grading Method: Regular General Education: DSHU, DVUP, SCIS

0101	Ingrid Satelmajer TuTh 3:30pm - 4:45pm	Seats (Total: 20) SQH 2120

HONR248K **Honors Seminar; Application of Biomed Ethics**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

0101	Glenn Rahmoeller Th 2:00pm - 2:50pm	Seats (Total: 20) PLS 1113

HONR249E **Honors Seminar: Modern and Postmodern Music: Trends, Styles, Issues, and Ideas**

Credits: 3 Grading Method: Regular CORE: HA General Education: DSHU

0101	James Fry TuTh 2:00pm - 3:15pm	Seats (Total: 20) PAC 2168

HONR249L **The Historical Development of London**

Credits: 3 Grading Method: Regular CORE: SH

Contact department for information to register for this course.

HONR258E **Honors Seminar; Creating the Future through Systemic Thinking and Design**

Credits: 3 Grading Method: Regular General Education: DSSP

0101	Gerald Suarez MW 3:30pm - 4:45pm	Seats (Total: 20) TWS 1320

HONR258O **Honors Seminar; The Kinesiological Bases of Skilled Performance**

Credits: 3 Grading Method: Regular

0101	Seppo Iso-Ahola TuTh 2:00pm - 3:15pm	Seats (Total: 20) SPH 0303

HONR258T **Honors Seminar: Tools of Fiction: Literature and/as Creative Writing**

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU

0101	Dean Hebert	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	LPA 0124

HONR258W **Honors Seminar: Exploring Homophobia: Demystifying Lesbian, Gay, Bisexual, and Transgender Issues**

Credits: 3 Grading Method: Regular , D General Education: DVUP

0101	Robyn Zeiger	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	LPA 0100

HONR259C **Honors Seminar: Fearfully Great Lizards: Topics in Dinosaur Research**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

0101	Thomas Holtz	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ESJ B0320

HONR259G **Honors Seminar; Fairness, Inequality, and Democracy**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Allan Drazen	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TYD 1132

HONR259K **Honors Seminar; Global Inequality: Research and Practice**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Roberto Korzeniewicz	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ASY 2115

HONR268L **Honors Seminar: United States Immigration Issues**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ANA 0120

HONR268N **Honors Seminar; Cracking the Secrets of the Universe Using Computers: Re-discovering the Higgs and Searching for Invisible Matter**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSNS, DSSP, SCIS

This course is part of a two-semester Honors research seminar. Part two of this series will be offered in the Spring 2017 Semester. For more information about the course, please visit physics.umd.edu/courses/Honr268N/. For permission to enroll, please contact Dr. Shabnam Jabeen at Jabeen@umd.edu.

0101	Shabnam Jabeen, Sarah Eno TuTh 11:00am - 12:15pm	Seats (Total: 20) PHY 3301

HONR269T **Honors Seminar: Understanding U.S. Foreign Policy toward Afghanistan**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, SCIS

This is a Global Classroom course. There will be approximately 2-4 weeks where this course will meet on an alternative day of the week for videoconferencing meetings with students in Kabul, Afghanistan instead of meeting at its normal weekly time on Thursday nights (the exact dates are TBA).

0101	Temim Nusraty Th 6:30pm - 9:00pm	Seats (Total: 10) ANA 0120

HONR278D **Honors Seminar; National Security Dilemmas**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Daniel Rosenthal M 7:00pm - 9:45pm	Seats (Total: 20) TWS 1321

HONR278E **Honors Seminar; The Internet, Democracy, and Dictatorship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The internet has revolutionized the delivery of information and the networking of citizens worldwide, but has it delivered democracy to new places? This course dissects and analyzes the role of the internet in regime resilience and change in a global perspective. This course demonstrates how the huge range of data and analytical tools available via the online sphere can lead to new understanding of both human and regime behavior.

0101	Sarah Oates	Seats (Total: 20)
	MW 2:00pm - 3:15pm	KNI 3202

HONR278G **Honors Seminar; Exploring How Foreign Policy Is Developed**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Temim Nusraty	Seats (Total: 20)
	M 6:30pm - 9:00pm	ANA 0120

HONR278K **Honors Seminar; Evolutionary Processes in Health Medicine**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Charles Delwiche	Seats (Total: 20)
	MW 3:00pm - 4:15pm	MCB 1123

HONR278V **Honors Seminar; Materiality of Diaspora: Invented Identities and Transformed World Views**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP

0101	Stephen Brighton	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	WDS 0104

HONR279B **Honors Seminar; Social Security in a Changing America**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Scott Szymendera	Seats (Total: 20)
	M 7:00pm - 9:30pm	JMZ 1117

HONR279L **Honors Seminar; The Problem of Prejudice: Overcoming Impediments to Global Peace and Justice**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Hoda Mahmoudi	Seats (Total: 20)
	Tu 3:00pm - 5:30pm	MOR 1101

HONR279Q **Honors Seminar; The Boy Who Lived, All Grown Up: Assessing the Harry Potter Books and their Adaptations**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Michelle Butler	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0103

HONR279R **Honors Seminar; Faith and Values in Public Life**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Darron Monteiro	Seats (Total: 20)
	Tu 6:00pm - 8:30pm	ANA 0120

HONR288A **Honors Seminar; Power, Representation and Public Policy**

Credits: 3 Grading Method: Regular

0101	David Karol	Seats (Total: 20)
	MW 4:00pm - 5:15pm	TYD 1114

HONR288O **Honors Seminar: Why Do Things Fail?**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS, SCIS

0101	William Fourney	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 2217

HONR289N **Honors Seminar; Physical Activity in Health and Human Performance: From Fat to Fit to Olympic Gold**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Colleen Farmer	Seats (Total: 20)
	W 2:00pm - 4:30pm	SPH 1303

HONR289P **Honors Seminar; How Do Innovators Think?**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit will be granted for only one of the following: BMBT289B or HONR289P. Course will meet on occasional Monday evenings from 6:30-9:15pm for assessments and guest speaker presentations. Specific dates will be available by the start of the semester.

0101	Mark Wellman Th 2:00pm - 3:50pm M 6:30pm - 9:15pm	Seats (Total: 20) EDU 3233 Location: TBA

HONR299C **Honors Seminar; Fashion and Costumes Through the Ages**

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Mikhail Kachman TuTh 3:30pm - 4:45pm	Seats (Total: 20) PAC 1809

HONR299F **Honors Seminar; Financial Crises: The Foundation of Global Tension**

Credits: 3 Grading Method: Regular

0101	Behzad Gohari W 6:00pm - 8:30pm	Seats (Total: 20) TWS 3132

HONR299G **Honors Seminar; The American Political Tradition**

Credits: 3 Grading Method: Regular

0101	Robert Chiles Th 6:15pm - 8:45pm	Seats (Total: 20) KEY 0120

HONR299H **Honors Seminar; Cutting Edge Science: Understanding Current Scientific Issues**

Credits: 3 Grading Method: Regular General Education: DSNS

0101	Boualem Hammouda TuTh 2:00pm - 3:15pm	Seats (Total: 20) HBK 1112

HONR299I **Honors Seminar; The Practice of Science in an Age of Truthiness**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Christopher Capp TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 1103

HONR348J **Advanced Honors Seminar; Contemporary Social Issues**

Credits: 3 Grading Method: Regular General Education: DVCC

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

0101	Howard Smead	Seats (Total: 20)
	W 4:00pm - 6:30pm	TLF 1103

HONR349V **Honors Colloquium; Dubai: Global Immersion Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

Contact department for information to register for this course.

HONR358A **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358B **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358C **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR359A **Honors Workshop**

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Liza Lebrun	Seats (Total: 15)
	Contact instructor or department for details.	

HONR359B **Honors Workshop; Alternatives to Violence**

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Colman McCarthy M 2:30pm - 5:00pm	Seats (Total: 20) ANA 0120

HONR359L **Honors Workshop; Leading Honors Colloquium**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

Contact department for information to register for this course.

HONR368A **Advanced Honors Seminar; MGA Legislative Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSPW

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as ENGL381. Credit only granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only.

0101	Thomas Lowderbaugh Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 0232
0201	Thomas Lowderbaugh W 3:30pm - 6:00pm	Seats (Total: 15) TWS 0232

HONR378A **Advanced Honors Seminar; U.S. Diplomacy and Policymaking**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM360. Credit granted for FGSM360 or HONR378A.

0101	Raffi Balian, William Usher Th 7:30pm - 10:30pm	Seats (Total: 23) PLS 1117

HONR378B **Advanced Honors Seminar; Responses to Global Challenges**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM380. Credit granted for FGSM380 or HONR378B.

0101	Rhoda Margesson W 5:30pm - 8:30pm	Seats (Total: 24) SQH 1107

HONR378D **Advanced Honors Seminar; Science Diplomacy: Foreign Policy and Science, Technology, and Innovation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM370. Credit granted for FGSM370 or HONR378D.

0101	Jonathan Margolis, Griffin Thompson W 5:00pm - 8:00pm	Seats (Total: 24) SQH 1101

HONR378E **Advanced Honors Seminar; Public Health Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM320. Credit granted for FGSM320 or HONR378E.

0101	Samuel Kessel, Elaine Anderson Tu 3:30pm - 6:30pm	Seats (Total: 23) SPH 1302

HONR378G **Advanced Honors Seminar; Homeland and National Security Policy**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM330. Credit granted for FGSM330 or HONR378G.

0101	Magdalena Bajll	Seats (Total: 23)
	M 6:30pm - 9:30pm	PLS 1117

HONR378J **Advanced Honors Seminar; Energy and Environmental Policy**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM340. Credit granted for FGSM340 or HONR378J.

0101	Ed Fendley, Thomas Carter	Seats (Total: 23)
	Tu 3:30pm - 6:30pm	BPS 1236

HONR378K **Advanced Honors Seminar; Critical Regions and International Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as FGSM350. Credit granted for FGSM350 or HONR378K. An examination of international relations and foreign policy challenges in critical regions.

0101	Danusia Hubah	Seats (Total: 24)
	Tu 7:00pm - 10:00pm	PLS 1172

HONR379 **Honors Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Available only to University honors students.

Contact department for information to register for this course.

HONR379A **Honors Independent Study**

Credits: 2 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Contact department for information to register for this course.

IDEA Academy for Innovation & Entrepreneurship Fall 2017

IDEA247 **Introduction to Peer Innnovation Coaching**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher; and permission of Academy for Innovation and Entrepreneurship. Credit only granted for: IDEA247 or IDEA250. Formerly: IDEA250. Additional information: Participation in the course requires students to submit an application, be interviewed and selected by the Academy for Innovation and Entrepreneurship.

Prepares you as an Academy for Innovation and Entrepreneurship Peer Innovation Coach (PIC), where you will be coaching and guiding student teams in the classroom as they experiment with using the design thinking process. You will first have the opportunity to sharpen your own understanding of the design thinking process by applying it to a team design challenge, as well as further explore each step through readings, discussion and reflection. You will then focus on the concept of creativity and learning about the mindsets that are conducive to innovation. Towards the end of the semester, you will focus on the theories and methods related to effective coaching. Throughout the course, you will observe and practice coaching alongside AIE Facilitators as they teach design thinking modules in various courses across campus. As you get more familiar and comfortable with the design thinking curriculum, you will have the opportunity to facilitate parts of classes or activities at some of our workshops and special events, such as departmental/campus-wide design challenges.

Contact department for information to register for this course.

IDEA258A **Special Topics in Innovation and Entrepreneurship; Becoming a Design Thinker: Mindsets and Tools for Innovation**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics in innovation

Design thinking provides the tools one needs to become an innovative thinker and doer. Students will grow their creative confidence, learn how to see the world with a designer's mindset, and practice applying design thinking methods to opportunities in the world around them. Learn more and apply to take the course: http://ter.ps/IDEA258A

0101	Mira Azarm, Meenu Singh W 2:00pm - 3:15pm	Seats (Total: 20) Location: TBA

0102	Pamela Armstrong, Meenu Singh Tu 2:00pm - 3:15pm	Seats (Total: 20) Location: TBA

IDEA369 **Peer Innovation Coaching**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Deepen your role as an Academy for Innovation and Entrepreneurship Peer Innovation Coach (PIC), where you will be coaching and guiding student teams in the classroom as they learn to use innovation methods. There is both an experiential component and a classroom component. The experiential component involves coaching and teaching innovation class sessions throughout campus, and the classroom component involves discussions, reflection assignments and scenario role-playing to help improve your coaching and teaching. While some of the content in the classroom component will be seeded by a set of course readings, much of it will also be seeded by your own experiences in the experiential component.

Contact department for information to register for this course.

IMMR Immigration Studies Fall 2017

IMMR219C **Special Topics in Immigration and Migration Studies; Anthropology and Immigration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Thematic exploration of a topic in immigration or migration studies history at an introductory level withemphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as ANTH264. Credit granted for ANTH264 or IMMR219C. An examination of the phenomenon of international migration, or immigration. Students develop awareness of how immigration has been framed in the general public and examined by social science disciplines, most prominently anthropology. Examination of case studies of different immigrant groups in distinct geographic contexts will illuminate the varied incorporation experiences of immigrants into U.S. society.

0101	Christina Getrich TuTh 9:30am - 10:20am F 9:00am - 9:50am	Seats (Total: 20) ESJ 1215 WDS 1127	 Discussion
0102	Christina Getrich TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 20) ESJ 1215 WDS 1127	 Discussion
0103	Christina Getrich TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 20) ESJ 1215 WDS 1127	 Discussion

IMMR419J **Special Topics in Immigration and Migration Studies; Globalization and the Diversifying US**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies history with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as USLT498N and AMST498W. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1101

INAG Institute of Applied Agriculture Fall 2017

INAG099 **Cooperative Education**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Restriction: Co-op is open to sustainable agriculture and agricultural business management students who have completed a minimum of 45 credit hours, have a minimum GPA of 2.0, and have advisor's permission. Cooperative Education, the culminating 22-week field experience in your program, is a collaborative partnership between the Institute of Applied Agriculture and the employer to provide a quality academic and practical training for students. Each student's co-op will vary according to the unique career direction the student wishes to pursue and is intended to accompany seminars and activities previously acquired in the IAA program. Upon completion of the course, students will have established contacts in the industry and substantial documentation to develop a personal portfolio.

0101	Meredith Epstein	Seats (Total: 15)
	Contact instructor or department for details.	

INAG100 **Introduction to Plant Science**

Credits: 4 Grading Method: Regular

Restriction: Must be a student in the Institute of Applied Agriculture; or permission of AGNR-Institute of Applied Agriculture department. Credit only granted for: INAG100, PLSC100, or PLSC101.

A general introduction to plant science designed to provide the students with a working knowledge of the fundamental structures and processes of plants. Content includes plant anatomy, physiology, genetics and environmental relationships.

0101	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am	JUL 1123	
	W 9:00am - 10:50am	JUL 1111	Lab

0102	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am F 9:00am - 10:50am	JUL 1123 JUL 1111	 Lab

INAG102 **Agricultural Entrepreneurship**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. May not count toward any BMGT major or minor requirement.

This course introduces fundamental concepts related to launching a profitable agricultural business. Topics include idea generation, opportunity recognition, conducting feasibility studies, assembling the entrepreneurial team, and financing the new venture, among others. Students will learn knowledge and skills relevant to starting a new agricultural business.

0101	Larisa Cioaca	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	JUL 1123

INAG103 **Agricultural Marketing**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.

Principles of market demand are used to develop a consumer oriented market strategy for agricultural businesses. Topics include market structures, target marketing, market segmentation, niche marketing and direct marketing. Market concepts unique to agriculture products are also covered.

0101	Christine Bergmark	Seats (Total: 20)
	MWF 11:00am - 11:50am	JUL 1123

INAG106 **Pesticide Use and Safety**

Credits: 2 Grading Method: Regular, Audit

Additional information: Priority enrollment will be given to students in the IAA program or to students in the College of Agriculture and Natural Resources (AGNR).

An overview of pesticide use and safety. Topics include environmental protection, labeling, personal safety, first aid, formulation and chemistry, equipment, disposal, storage, record-keeping and liability. The course prepares students to take the Maryland State test for a private applicator's license.

0101	Ronald Myers Class time/details on ELMs	Seats (Total: 30) ONLINE

INAG110 **Oral Communication**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

0101	Eric Dunning MWF 8:00am - 8:50am	Seats (Total: 19) EGR 1110
0201	Amy Fisher MWF 8:00am - 8:50am	Seats (Total: 19) JMP 2202
0301	Kristen Willett MWF 9:00am - 9:50am	Seats (Total: 19) CHE 2136
0401	Eric Dunning MWF 9:00am - 9:50am	Seats (Total: 19) EGR 1110
0501	Amy Fisher MWF 9:00am - 9:50am	Seats (Total: 19) JMP 2202
0701	Amy Fisher MWF 10:00am - 10:50am	Seats (Total: 19) JMP 2202
0801	Robert Ballenger MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1168
0901	Anthony Pagnotti MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1111

1001	Edward Priola MWF 11:00am - 11:50am	Seats (Total: 19) JUL 1105
1101	Robert Ballenger MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1176
1201	Michelle Molinaro MWF 12:00pm - 12:50pm	Seats (Total: 19) CHE 2145
1301	Anthony Pagnotti MWF 12:00pm - 12:50pm	Seats (Total: 19) ATL 0201
1401	Kristen Willett MWF 12:00pm - 12:50pm	Seats (Total: 19) EGR 1110
1501	Michelle Molinaro MWF 1:00pm - 1:50pm	Seats (Total: 19) JMP 1202
1601	Edward Priola MWF 1:00pm - 1:50pm	Seats (Total: 19) JUL 1105
1701	Kristen Willett MWF 1:00pm - 1:50pm	Seats (Total: 19) EGR 1110
1801	Michelle Molinaro MWF 2:00pm - 2:50pm	Seats (Total: 19) EGR 1102
1901	Robert Ballenger MWF 2:00pm - 2:50pm	Seats (Total: 19) JMZ 2117
2001	Edward Priola MWF 2:00pm - 2:50pm	Seats (Total: 19) JUL 1105
2101	JoEllen Barnhart MW 3:00pm - 4:15pm	Seats (Total: 19) ATL 2352
2201	JoEllen Barnhart M 6:00pm - 8:45pm	Seats (Total: 19) JUL 1105
2301	JoEllen Barnhart W 6:00pm - 8:45pm	Seats (Total: 19) JUL 1105

2401	Amy Fisher TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1146
2501	Eric Dunning TuTh 8:00am - 9:15am	Seats (Total: 19) EGR 3106
2601	Amy Fisher TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1172
2701	Eric Dunning TuTh 9:30am - 10:45am	Seats (Total: 19) EGR 3106
2801	Robert Ballenger TuTh 9:30am - 10:45am	Seats (Total: 19) HBK 0109
2901	Edward Priola TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 3205
3001	Anthony Pagnotti TuTh 11:00am - 12:15pm	Seats (Total: 19) SQH 1107
3101	Eric Dunning TuTh 11:00am - 12:15pm	Seats (Total: 19) CHE 2116
3201	Michelle Molinaro TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 2122
3301	Anthony Pagnotti TuTh 12:30pm - 1:45pm	Seats (Total: 19) SQH 1111
3401	Edward Priola TuTh 12:30pm - 1:45pm	Seats (Total: 19) SKN 1115
3501	Michelle Molinaro TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 2123
3601	Robert Ballenger TuTh 2:00pm - 3:15pm	Seats (Total: 19) SQH 1111
3701	Kristen Willett TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1176

3801	Kristen Willett TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1176
3901	JoEllen Barnhart TuTh 3:30pm - 4:45pm	Seats (Total: 19) JUL 1105
4001	JoEllen Barnhart TuTh 5:00pm - 6:15pm	Seats (Total: 19) JUL 1105

INAG110S **Oral Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

Restricted to College Park Scholars.

0601	Anthony Pagnotti MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1111

INAG123 **Introduction to Sustainable Agriculture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory course that provides an overview of the principles and practices of sustainable agriculture. Students explore the economic, social, and environmental impacts of agriculture and relate the principles of sustainability to various agricultural production practices and systems.

0101	Michelle Nelson W 3:00pm - 6:00pm	Seats (Total: 25) JUL 1123

INAG199 **Special Problems**

Credits: 1-3 Grading Method: Regular

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. A detailed study, including a written report, involving a current issue in an agricultural area that relates to the student's major. The study is conducted under the direction of a faculty member. A maximum of three credit hours of special problems may be applied toward graduation.

0101	Geoffrey Rinehart Contact instructor or department for details.	Seats (Total: 10)
0201	Meredith Epstein Contact instructor or department for details.	Seats (Total: 10)
0301	Kenneth Ingram Contact instructor or department for details.	Seats (Total: 10)
0401	Roy Walls Contact instructor or department for details.	Seats (Total: 10)
0501	Larisa Cioaca Contact instructor or department for details.	Seats (Total: 10)
0601	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG199C **Special Problems; Special Problems in AgriScience**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must successfully complete an accredited high school agriculture program with a minimum of 4 agriculture courses with a minimum grade of B in each course. Demonstrates the application of scientific principles of agriculture by developing and presenting an oral report on a capstone project relevant to ccurrent agriculture issues.

0101	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG199D **Special Problems; Agricultural Tractor Operations and Maintenance**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This class introduces students to the operation and maintenance of agricultural tractors and farm equipment. Students learn to safely and efficiently operate tractors, connect and use implements, perform regular maintenance, and handle materials. This course will be held at the Upper Marlboro Research and Education Center on two consecutive days: Saturday, September 23 and Sunday, September 24 (rain date is tentatively set for October 28 & 29). Students will need to provide their own transportation to and from the facility. This course is open to IAA and PLSC students.? Other AGNR students will be granted permission to enroll if seats are available.

0101	Meredith Epstein	Seats (Total: 6)
	Contact instructor or department for details.	

INAG201 **Agricultural Human Resources Management**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: May not count toward any BMGT major or minor requirement.

The course introduces students to the study and application of the basic principles of human relations and personnel management. A variety of approaches to recruiting, training, delegating, motivating, and appraising employees are among the topics discussed.

0101	Kenneth Ingram	Seats (Total: 30)
	TuTh 8:00am - 9:15am	JUL 1123

INAG203 **Agricultural Finance**

Credits: 3 Grading Method: Regular, Audit

Restriction: Students at the Institute of Applied Agriculture (IAA); or students at the College of Agriculture and Natural Resources (AGNR); or permission may be granted to other students based on available space. Additional information: Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.

This course introduces fundamental concepts related to the financial management of an agricultural business. Topics include financial statement analysis, financial planning, the relationship between risk and return, the time value of money, costs associated with borrowed funds, sources of capital, financial markets and intermediaries in agriculture, and personal finance, among others. Students will gain financial knowledge and skills necessary for managing a profitable agricultural business.

0101	Larisa Cioaca	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JUL 1123

INAG222 **Landscape Design and Implementation**

Credits: 4 Grading Method: Regular, Audit

0101	Kenneth Ingram	Seats (Total: 20)	
	Tu 2:00pm - 4:00pm	JUL 1123	
	Th 2:00pm - 6:00pm	JUL 1123	Lab

INAG226 **Diseases of Ornamentals and Turf**

Credits: 3 Grading Method: Regular, Audit

Recommended: Completion of one of the following is recommended: PLSC 253, PLSC 254, INAG 107, PLSC 305. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture.

The course will cover various topics such as plant pathology, disease control practices, and an in depth coverage of the major diseases of ornamentals and turfgrasses in the Mid-Atlantic region. Emphasis will be placed on identification of disease signs and symptoms. Over 50 diseases will be covered during the semester.

0101	Geoffrey Rinehart	Seats (Total: 25)	
	Tu 11:00am - 12:50pm	JUL 1111	
	Th 11:00am - 12:50pm	JUL 1111	Lab

INAG231 **Insects of Ornamentals and Turf**

Credits: 3 Grading Method: Regular, Pass-Fail

Recommended: PLSC253, PLSC254, or PLSC305; or INAG107. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority enrollment will be given to students in the IAA program.

A study of the major insect pests and beneficial insects of ornamental plants and turfgrasses in the Mid-Atlantic region. The student will be responsible for insect identification, life history, and control practices of approximately 100 insects. An insect collection consisting of both insect pests and beneficial insects is required.

0101	Geoffrey Rinehart	Seats (Total: 18)	
	W 9:00am - 10:50am	JUL 1123	
	M 9:00am - 10:50am	JUL 1111	Lab

INAG237 **Surveying and GPS Applications in Agriculture**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-College of Agriculture & Natural Resources. Additional information: Course is open to Institute of Applied Agriculture students and permission will be granted to others in the College of Agriculture and Natural Resources based on available seats. IAA student must have completed INAG 101 and INAG 104.

The principles of land measurement, using conventional surveying techniques to determine distance, elevation change or topography; Global Positioning System (GPS) devices; and mapping, utilizing Graphical Information Systems (GIS), will be the focus of this course. Students will use surveying equipment and GPS receivers and other data collection instruments to collect land data features. Data will be mapped and analyzed using software including: Trimble GPS Pathfinder Office, and ESRI ArcGIS software. Students will download and integrate available on-line geo-referenced map images or other data to support the development of their GPS collected data. Spatial analysis software will be used to map problem areas of field agronomic factors.

0101	Roy Walls	Seats (Total: 10)	
	W 12:00pm - 1:50pm	ANS 0504	
	F 11:00am - 12:50pm	ANS 0509	Lab

INAG240 **Professional Development**

Credits: 1 Grading Method: Regular

Prerequisite or corequisite: INAG299A. Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. Required for all graduating IAA students, this course provides students with the opportunity to reflect on their academic experience and develop skills necessary to successfully transition into their careers. Students will explore careers and professional associations, complete their portfolios, and prepare resumes. Each student will develop and present a professional presentation on his/her internship experience.

0101	Glori Hyman	Seats (Total: 25)
	M 3:00pm - 4:50pm	JUL 1123

INAG242 **Golf Course Design and Construction**

Credits: 3 Grading Method: Regular General Education: DSSP

An appreciation and understanding of the game of golf is obtained through lectures on the history, organizations, and rules of the game. Golf course design theories, great architects and their courses, and construction specifications are discussed. Students will complete two golf course design projects.

0101	Kenneth Ingram	Seats (Total: 22)	
	MW 2:00pm - 2:50pm	JUL 1111	
	W 3:00pm - 4:50pm	JUL 1111	Lab

INAG250 **Fundamentals of Agricultural Mechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Institute of Applied Agriculture department. Also offered as: PLSC204, PLSC204. Credit only granted for: ENBE200 or PLSC204 or INAG250. Formerly: ENBE200. Additional information: Priority given to IAA majors and AGNR students whose major requires this course. Permission will be granted to other students on seats available basis.

A comprehensive course that teaches the fundamentals of agricultural related mechanics. Lecture and lab exercises will cover the broad range of topics associated with agricultural mechanics including electricity, plumbing, welding processes, and wood and metal working applications. Emphasis will be given to the design and installation of electrical circuits. It will also include project planning and implementation including development of safety protocols for each area of study and introduction of GPS equipment and software for survey data collection.

0101	Roy Walls	Seats (Total: 8)
	TuTh 9:30am - 12:20pm	ANS 0504
0201	Roy Walls	Seats (Total: 8)
	TuTh 2:00pm - 4:50pm	ANS 0504

INAG299A **Supervised Work Experience; Internship I**

Credits: 1 Grading Method: Sat-Fail

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. On-site internship training in the student's major area of study. Students must complete a minimum of 320 working hours at an approved work site. Students should complete the on-site portion of their internship during the summer between their first and second years. After completing Internship I, students must take Internship II in which they complete a report. The two courses should be completed in consecutive semesters or simultaneously.

Contact department for information to register for this course.

INAG299B **Supervised Work Experience; Internship II**

Credits: 1 Grading Method: Regular

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. Internship II is a follow up report to Internship I, and the two courses should be completed in consecutive semesters. Students must complete and submit a comprehensive report on the activity and management of the work site used in INAG 299A Internship I.

Contact department for information to register for this course.

INFM Information Management Fall 2017

INFM600 **Information Environments**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An exploration of various models and methodologies used to capture and deploy internal and external information and knowledge in a number of settings; organizational analysis in terms of information creation, flow, sharing, conservation, and application to problem solving; internal and external influences on the management of information and knowledge; various information flows; information management in a variety of settings.

0101	Philip Piety M 2:00pm - 4:45pm	Seats (Total: 30) HBK 0123
0201	David Loshin Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 0109

INFM603 **Information Technology and Organizational Context**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed LBSC671 or LBSC690; and permission of INFO-College of Information Studies.

Application of communication and information technologies to support work processes, including technology-enhanced communication networks, computer-supported collaborative work, decision-support systems, interactive systems, and systems analysis. Acquisition of information systems and their integration into the organization.

0101	Paul Jacobs Th 6:00pm - 8:45pm	Seats (Total: 30) HBK 0105

INFM605 **Users and Use Context**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Use of information by individuals. Nature of information. Information behavior and mental models. Characteristics of problems, task analysis, problem solving, and decision making. Methods for determining information behavior and user needs. Information access. Information technology as a tool in information use.

0101	Vera Rhoads	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 1108

INFM612 Management of Information Programs and Services

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Key aspects of management - focusing on planning, organizing, leading and controlling. The evolution of management, innovative management for the changing world, management styles and leadership, managerial planning, goal setting and decision making. Ethical issues, designing adaptive organizations responding to change, global environment, diversity, and utilizing the appropriate technology to provide effective management of information programs and services.

0101	Ping Wang	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0105

INFM714 Principles of Competitive Intelligence

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM600; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM714 or INFM718W. Formerly: INFM718W.

Intelligence process and how to build business advantage by the collection and analysis of the capabilities, vulnerabilities, market positioning and strategic planning of competitors using open source information.

ML01	Taverekere Srikantaiah	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INFM719 Independent Study

Credits: 1-3 Grading Method: Regular

Intensive individual study under faculty supervision.

Contact department for information to register for this course.

INFM736 **Information Management Experience**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: INFM600; and INFM612; and INFM605; and INFM603. Or permission of instructor. Restriction: Must be in Information Management (Master's) program; and permission of INFO-College of Information Studies.

The Information Management Capstone Experience I and II are the culminating experience of the Master of Information Management program, taken in the students final two semesters. The capstone experience provide students with the opportunity to integrate and synthesize the knowledge and skills acquired throughout their MIM course work while working in a real world Information Management project. These courses must be taken in succession.

0201	Kathy Weaver M 2:00pm - 4:45pm	Seats (Total: 30) SQH 2120
SG01	Kathy Weaver Tu 6:00pm - 8:45pm	Seats (Total: 36) BLD1 108

INFM743 **Development of Internet Applications**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603, LBSC690, LBSC671, or INST733; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Mark up languages and methods for manipulating marked-up content. Techniques for adding interactivity to web pages. Installing and running servers. Server-side applications. Application programming interfaces for third-party content and tools. Extension development.

0101	Jennifer Golbeck W 6:00pm - 8:45pm	Seats (Total: 35) HBK 0109

INFM747 **Web-Enabled Databases**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603, LBSC690, or LBSC671; and INST733. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM747 or INFM718N. Formerly: INFM718N.

Basic methods and tools for developing dynamic, database-driven web sites. Acquiring, installing, and running web servers, database servers, and connectability applications. Developing web interfaces and application-layer components.

ML01	Vedat Diker	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INFM750 **From Data to Insights**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603 and INST737; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM750.

Application of data science techniques to unstructured, real-world datasets including social media and geo-referenced sources. Techniques and approaches to extract information relevant for experts and non-experts in areas that include smart cities, public health, and disaster management.

0101	Vanessa Frias-Martinez	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0123

INFM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Intensive individual research course under the supervision of a faculty member.

Prerequisite: INST701; or permission of instructor. Restriction: Must be in Information Management (Master's) program; and permission of instructor; and permission of INFO-College of Information Studies. Repeatable to 9 credits.

Contact department for information to register for this course.

INST Information Studies Fall 2017

INST126 **Introduction to Programming for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MATH115; or must have math eligibility of MATH140 or higher; or permission of instructor. Restriction: Must not have completed INST326 or CMSC131; and must be in Information Science program. Credit only granted for: CMSC106, CMSC122, OR INST126.

An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.

0101	Jonathan Brier MWF 2:00pm - 2:50pm	Seats (Total: 50) ATL 1113
0201	Bill Kules TuTh 9:30am - 10:45am	Seats (Total: 60) HJP 2242

INST201 **Introduction to Information Science**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Credit only granted for: INST201 or INST301. Formerly: INST301.

Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.

0101	Jessica Vitak TuTh 12:30pm - 1:45pm	Seats (Total: 125) JMZ 0220
0201	Elizabeth Bonsignore MWF 10:00am - 10:50am	Seats (Total: 107) TWS 0310

INST309 **Independent Study in Information Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

0101	Richard Marciano Contact instructor or department for details.	Seats (Total: 15)
2401	Bill Kules Contact instructor or department for details.	Seats (Total: 6)
2801	Eun Kyoung Choe Contact instructor or department for details.	Seats (Total: 1)

INST309B **Independent Study in Information Science; Consumer Health Informatics**

(Perm req)

Credits: 3 Grading Method: Regular

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

1501	Beth St Jean M 6:00pm - 8:45pm	Seats (Total: 10) HBK 0123

INST311 **Information Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST201; or INST301. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.

0101	Katy Lawley TuTh 11:00am - 12:15pm	Seats (Total: 50) ATL 2428
0201	Katy Lawley MWF 2:00pm - 2:50pm	Seats (Total: 50) ATL 2428

INST314 **Statistics for Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST201; or must have completed or be concurrently enrolled in INST301. And minimum grade of C- in INST201 and INST301; and MATH115; and STAT100; and minimum grade of C- in MATH115 and STAT100. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.

0101	Brian Butler, Susan Winter TuTh 3:30pm - 4:45pm	Seats (Total: 35) TYD 2111
0201	Susan Winter, Brian Butler MWF 11:00am - 11:50am	Seats (Total: 60) HJP 2242

INST326 **Object-Oriented Programming for Information Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST126, CMSC106); and must have completed or be concurrently enrolled in INST201 or INST301. And minimum grade of C- in INST201; or minimum grade of C- in INST301. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: INST326 or CMSC131.

An introduction to programming, emphasizing understanding and implementation of applications using object-oriented techniques. Topics to be covered include program design and testing as well as implementation of programs.

Students who wish to register should contact the College of Information Studies.

0101	Timothy Richards TuTh 12:30pm - 1:45pm	Seats (Total: 50) PHY 4221
0201	Dimitri Wolford MWF 3:00pm - 3:50pm	Seats (Total: 50) SPH 0308

INST327 **Database Design and Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: 1 course with a minimum grade of C- from (CMSC106, CMSC122, INST126); and must have completed or be concurrently enrolled in INST201 or INST301; and minimum grade of C- in INST201 and INST301. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: INST327 or BMGT402.

Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.

Students who wish to register should contact the College of Information Studies.

0101	Vedat Diker TuTh 2:00pm - 3:15pm	Seats (Total: 50) EGR 0108
0201	Tammie Nelson, Donal Heidenblad MWF 10:00am - 10:50am	Seats (Total: 50) ATL 2428

INST335 **Teams and Organizations**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in PSYC100. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Team development and the principles, methods and types of leadership will be a focus with an emphasis on goal setting, motivation, problem solving, and conflict resolution. This course examines the principles of managing team projects in organizations through planning and execution including estimating costs, managing risks, scheduling, staff and resource allocation, communication, tracking, and control.

Students who wish to register should contact the College of Information Studies.

0101	Philip Piety TuTh 2:00pm - 3:15pm	Seats (Total: 50) ARC 1103
0201	Ping Wang MWF 1:00pm - 1:50pm	Seats (Total: 50) HBK 0115

INST346 **Technologies Infrastructure and Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and 1 course with a minimum grade of C- from (INST326, CMSC131); and minimum grade of C- in INST327. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: INST346 or BMGT405.

Examines the basic concepts of local and wide-area computer networking including an overview of services provided by networks, network topologies and hardware, packet switching, client/server architectures, network protocols, and network servers and applications. The principles and techniques of information organization and architecture for the Web environment will be covered along with such topics as management, security, authentication, and policy issues associated with distributed systems.

Students who wish to register should contact the College of Information Studies.

0101	Douglas Oard TuTh 5:00pm - 6:15pm	Seats (Total: 50) JMZ 2206
0201	Cody Buntain MWF 1:00pm - 1:50pm	Seats (Total: 50) EDU 3315

INST352 **Information User Needs and Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST311. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.

Students who wish to register should contact the College of Information Studies.

0101	Ursula Gorham-Oscilowski TuTh 11:00am - 12:15pm	Seats (Total: 54) PHY 4221
0201	Beth St Jean MWF 12:00pm - 12:50pm	Seats (Total: 50) EDU 1121

INST354 **Decision-Making for Information Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST314. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Examines the use of information in organizational and individual decision-making, including the roles of information professionals and information systems in informed decision-making through techniques such as data analysis and regression, optimization, sensitivity analysis, decision trees, risk analysis and business simulation models.

Students who wish to register should contact the College of Information Studies.

0101	Christopher Antoun TuTh 3:30pm - 4:45pm	Seats (Total: 50) ARC 1101

INST362 **User-Centered Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in INST326; and minimum grade of C- in PSYC100. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Introduction to human-computer interaction (HCI), with a focus on how HCI connects psychology, information systems, computer science, and human factors. User-centered design and user interface implementation methods discussed include identifying user needs, understanding user behaviors, envisioning interfaces, and utilizing prototyping tools, with an emphasis on incorporating people in the design process from initial field observations to summative usability testing.

Students who wish to register should contact the College of Information Studies.

0101	Amanda Lazar MWF 3:00pm - 3:50pm	Seats (Total: 50) CHM 0115
0201	Tamara Clegg TuTh 9:30am - 10:45am	Seats (Total: 50) SQH 1119

INST377 **Dynamic Web Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST327. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies. Credit only granted for: INST377 or BMGT406.

An exploration of the basic methods and tools for developing dynamic, database-driven websites, including acquiring, installing, and running web servers, database servers, and connectability applications.

Students who wish to register should contact the College of Information Studies.

0101	Myeong Lee MWF 11:00am - 11:50am	Seats (Total: 50) KEY 0103

INST462 **Introduction to Data Visualization**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST314. Restriction: Must be in Information Science program; and permission of INFO-College of Information Studies.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

Students who wish to register should contact the College of Information Studies.

0101	Niklas Elmqvist MW 4:00pm - 5:15pm	Seats (Total: 30) HBK 2119

INST604 **Introduction to Archives and Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC604 or LBSC605.

Overview of the principles, practices, and applications in the archival and digital curation fields.

0201	Ricardo Punzalan Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 0103

INST610 **Information Ethics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718Q, INST610, or LBSC708I. Formerly: INFM718Q and LBSC708I.

Investigation of the diverse range of ethical challenges facing society in the information age. Ethical theories, including non-Western and feminist theories. Application of theories to information ethics issues.

ML01	Hannah Bergman	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST613 **Information and Human Rights**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An examination of information as a human right, including topics: social, cultural, economic, legal, and political forces shaping information rights; the impact of information rights on information professions, standards, and cultural institutions; and information rights and disadvantaged populations.

0101	Paul Jaeger	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0105

INST615 **Legal Issues in Managing Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC735 OR INST615. Formerly: LBSC735.

An exploration of the interrelated issues of the provision of and information literacy about legal information by information organizations and the impacts of legal issues, such as privacy and filtering, on the practice of information organizations that serve the public.

ML01	Ursula Gorham-Oscilowski	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST620 **Diverse Populations, Inclusion, and Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

ML01	Renee Hill	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST627 **Data Analytics for Information Professionals**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Skills and knowledge needed to craft datasets, perform quantitative and qualitative analyses, and develop information resources that bridge the gap between raw data and decision makers' needs.

0201	Hernisa Kacorri	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 0105

INST630 **Introduction to Programming for the Information Professional**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An introduction to computer programming intended for students with no previous programming experience. Topics include fundamentals of programming and current trends in user interface implementation that are relevant to information professionals.

0101	Timothy Richards	Seats (Total: 30)
	M 2:00pm - 4:45pm	HBK 0105

INST631 **Fundamentals of Human-Computer Interaction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in INST630; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST631 or LBSC795. Formerly: LBSC795.

Principles of human-human and machine-machine communication as a basis for models of human-computer communication. Issues related in input/ output devices, conceptual models, levels of control, metaphor and personification, adaptability, and intensionality/extensionality.

0101	Eun Kyoung Choe	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 2119

INST643 **Curation in Cultural Institutions**

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies.

An overview of the principles, practices, and current debates in the management, care and representation of digital artifacts in libraries, archives, and museums.

0101	Adam Kriesberg W 2:00pm - 4:45pm	Seats (Total: 30) HBK 0103

INST647 **Management of Electronic Records & Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC682 OR INST647. Formerly: LBSC682.

Focuses on the life cycle of records and the impact of technology programs for managing electronic records. Explores the roles of records managers in the management of electronic records.

0101	Adam Kriesberg Tu 6:00pm - 8:46pm	Seats (Total: 30) HBK 0115

INST650 **Facilitating Youth Learning in Formal and Informal Environments**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST650 or LBSC640. Formerly: LBSC640.

The historical, organizational, and contemporary contexts of formal and informal learning spaces; the principles of teaching, learning, and information literacy that underlie the formal and informal learning spaces; and the leadership role that information professionals can play within their schools, libraries and communities.

CT01	Renee Hill Class time/details on ELMs	Seats (Total: 15) ONLINE
ML01	Renee Hill Class time/details on ELMs	Seats (Total: 25) ONLINE

INST651 **Promoting Rich Learning with Technology**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST651 or LBSC642. Formerly: LBSC642.

Exploration of how technology can be used to promote rich learning experiences, with a particular focus on youth populations. Assessment of the how, when, and why of infusing technology into the teaching and learning process.

Course is restricted to the Youth Experience Certificate Cohort.

CT01	Linda Braun	Seats (Total: 25)
	Meets August 28, 2017 - November 19, 2017	
	Class time/details on ELMs	ONLINE
	Course is restricted to the Youth Experience Certificate Cohort.	
ML01	Renee Hill	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST652 **Design Thinking and Youth**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Methods of design thinking specifically within and for youth contexts, including user-centered design, understanding user needs, ideation, contextual design, participatory design, iterative prototyping, and visual design. These topics will specifically be studied in the context of designing with and for youth.

Course is restricted to the Youth Experience Certificate Cohort.

CT01	Tamara Clegg	Seats (Total: 20)
	Meets November 27, 2017 - February 25, 2018	
	Class time/details on ELMs	ONLINE

INST660 **Strategic Leadership**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM612; or LBSC631; or LBSC635; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST660, LBSC708F or INFM718F. Formerly: LBSC708F, INFM718F.

Students will use research and best practices to act and think like a leader, increase your self-awareness, and learn how to unlock potential in others. From the stories of great leaders and everyday people, you will learn and practice empowerment, accountability, courage, creativity, and humility, which are the key leadership skills. In addition, this course will teach you how to create new opportunities and lasting impact to drive growth and value creation in your organization.

ML01	Timothy Summers	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST701 **Introduction to Research Methods**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC701, INFM718M or INST701. Formerly: LBSC701, INFM718M.

Techniques and strategies of research as applied to the definition, investigation, and evaluation of information problems. Qualitative, quantitative, and mixed methods of research design methods are considered from the aspects of implementation, analysis, and interpretation.

0101	Margaret Chmiel	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 0115

INST706 **Project Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603 and INFM612; or (LBSC631 and LBSC671); or (LBSC635 and LBSC670); or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST706 or INFM706. Formerly: INFM706.

Comprehensive overview of project management, focusing on the needs of information resource (IR) projects. Concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, monitoring, control, and other aspects of successful project completion.

ML01	Vikas Sahasrabudhe	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

0103	Brian Butler Contact instructor or department for details.	Seats (Total: 3)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 3)
2301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 2)
2401	Jessica Vitak Contact instructor or department for details.	Seats (Total: 5)
4301	Ursula Gorham-Oscilowski Contact instructor or department for details.	Seats (Total: 2)
4501	Tamara Clegg Contact instructor or department for details.	Seats (Total: 3)

INST728L **Special Topics in Information Studies; Advanced Research in Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Selected topics in information studies.

0101	Richard Marciano M 2:00pm - 4:45pm	Seats (Total: 25) WDS 1130

INST733 **Database Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC690, LBSC671, or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST733 or LBSC793. Formerly: LBSC793.

Principles of user-oriented database design. Requirements analysis. Data modelling. Data integrity and security and multi-user databases. Implementing an information system using a database management system (DBMS).

0101	Katy Lawley	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 0109

INST735 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department. Restriction: Permission of INFO-College of Information Studies. Also offered as: CMSC723, LING723. Credit only granted for: CMSC723, LING723, or INST735.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	CSI 1121

INST737 **Introduction to Data Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST627; and (LBSC690, LBSC671, or INFM603). Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

An exploration of some of the best and most general approaches to get the most information out of data through clustering, classification, and regression techniques.

0101	A Seyed	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0109

INST760 **Data Visualization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST630; or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST760 or INST728V. Formerly: INST728V.

Introduction to the science and technology of data visualization--the graphical representation of data to aid understanding--and includes both theoretical foundations as well as practical applications of integrated visualization techniques on real-world problems. Application of these techniques to state-of-the-art problem domains within research, society, and industry.

0101	Sriram Badam	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 0115

INST775 **HCIM CAPSTONE PREP**

Credits: 3 Grading Method: Regular

Prerequisite: INST631, INST632, and INST717; and must have completed Research Methods; and permission of INFO-College of Information Studies. Or permission of instructor. Restriction: Must be taken in the fall semester of the year in which the student plans to graduate; and permission of INFO-College of Information Studies.

Students will define a project, which requires a high level of background research, rigor in execution and evaluation, and documentation. Capstone projects may follow the design, prototyping and evaluation process from end-to-end or may focus on a subset of elements in that process, such as formative study and design.

0101	Bill Kules	Seats (Total: 20)
	Th 6:00pm - 8:45pm	HBK 0115

INST782 **Arrangement, Description, and Access for Archives**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC684, LBSC781, LBSC782, or INST782. Formerly: LBSC684, LBSC781, and LBSC782.

Introduction to the key concepts and practices involved with arrangement and description of archives, and the techniques appropriate to enable users to access archival information in traditional and nontraditional archival contexts.

0101	Kenneth Heger	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 1108

INST799 **Master's Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Sat-Fail

0501	Amanda Lazar	Seats (Total: 3)
	Contact instructor or department for details.	

1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 10)
2201	Leah Findlater Contact instructor or department for details.	Seats (Total: 1)
2301	Bill Kules Contact instructor or department for details.	Seats (Total: 5)
5001	Michelle Mazurek Contact instructor or department for details.	Seats (Total: 2)

INST800 **The Engaged Intellectual: An Introduction to Research and Academic Work**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies; and restricted to students in Ph.D. in Information Studies (INFS) program.

An introduction to the academic life with a particular focus on what it means to undertake research, teaching, and service.

Restricted to Doctoral Students.

0101	Mega Subramaniam Tu 6:00pm - 8:45pm	Seats (Total: 20) HBK 4113

INST809 **Individualized Teaching Experience**

(Perm req)

Credits: 3-5 Grading Method: Regular, Audit

Introduction to the techniques and challenges associated with design, delivery, and evaluation of couses offered at the University level. The doctoral student will work one-on-one with a faculty member in the development and co-teaching of a graduate level course.

Contact department for information to register for this course.

INST810 **Individual Research Experience**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: INST810 or LBSC810. Formerly: LBSC810.

Pre-candidacy individual research experience directed by a faculty member.

1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 2)
1601	Vanessa Frias-Martinez Contact instructor or department for details.	Seats (Total: 2)
2401	Jessica Vitak Contact instructor or department for details.	Seats (Total: 5)

INST888 **Doctoral Seminar**

Credits: 3 Grading Method: Regular, Audit

Advanced seminar on selected topics in information studies.

0101	Ricardo Punzalan W 6:00pm - 8:45pm	Seats (Total: 20) HBK 0105

INST898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ISRL Israel Studies Fall 2017

ISRL249C **Selected Topics in Israel Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249D **Selected Topics in Israel Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249E **Selected Topics in Israel Studies; Writing Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL289I **The Israeli/Palestinian Conflict: Fundamental Questions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Why are Palestinians and Israelis unable to resolve their conflict? Will they ever? Using insights and methodologies from a variety of disciplines and contrasting interpretations of history, this course will examine why the Palestinian-Israeli conflict continues, why it has become so central in world politics and how it connects with other global issues.

0101	Paul Scham	Seats (Total: 80)
	TuTh 3:30pm - 4:45pm	TWS 0310

ISRL329E **Special Topics in Israel Studies; Israel and the Arab Spring**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as GVPT309L. Credit granted for GVPT309L or ISRL329E. This course will explore and analyze the political, diplomatic, and strategic effects of the Arab Spring and its continuing after effects on the State of Israel, using that as a lens to study the contemporary Middle East. It starts with a preliminary study of Israel's foreign policy and then examines the effects of the Arab Spring on its domestic politics: relations with other regional actors, the Palestinians, and the United States; and Israel's strategy towards non-state actors such as Hamas, Hezbollah, and ISIS.

0101	Moran Stern	Seats (Total: 40)
	W 4:00pm - 6:30pm	TYD 2111

ISRL329F **Special Topics in Israel Studies; The History of Economic Policy in Palestine/Israel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Prerequisite: ECON201. Also offered as ECON398J. Credit granted for ECON398J or ISRL329F. This course examines economic policy in Palestine/Israel from 1999 (under Ottoman rule) through the British Mandate (1922-48) until 1988, when the current neo-liberal economic policy began. It will examine how the governments and society dealt with issues such as growth versus equality (distributive justice); ideology versus praxis; local original policy versus imported policy; and politics versus academic economics - who decides and under what circumstances?

0101	Yair Barak	Seats (Total: 40)
	TuTh 9:30am - 10:45am	JMZ 2206

ISRL329J **Special Topics in Israel Studies; Representing the Holocaust**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as JWST346, ENGL332, and CMLT398J. Credit only granted for JWST346, ENGL332, CMLT389J, or ISRL329J.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TWS 0236

ISRL349A **Investigating Topics in Israel Studies; The Psychology of Conflict Resolution**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349B **Investigating Topics in Israel Studies; Arab-Israeli Relations**

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349Z **Investigating Topics in Israel Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as JWST319M. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

ISRL369C **Special Topics in Study Abroad; Israeli Society in Israeli Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ISRL448M **Seminar in Israel Studies; The Israeli War Discourse**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.

Recommended, (NOT required): Some knowledge of Israel or a previous Israel Studies course. Israel has survived and even flourished since its founding in 1948, despite being engaged in virtually continuous warfare. This online course focuses on the unique cultural and linguistic mechanisms that Israeli society has developed to transform war into a "normal" part of life. We will examine the connections between this 'war-normalizing discourse', Israeli culture and society, and foreign policy.

0101	Dalia Gavariely Nuri, Elie Friedman	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

ISRL448T **Seminar in Israel Studies; 1967 and its Aftermath: How they Changed Israel and the Mideast**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.

Also offered as JWST429D and HIST428X. Credit granted for ISRL448T, JWST429D, or HIST428X. The Six Day/June War of 1967 helped set into motion a series of events that reverberate today. This seminar will examine the results of the war, focusing primarily on the Israeli Occupation of the West Bank, the ensuing radical transformation of Israeli policy towards Palestinians, and its impact on their daily lives. It will also examine Palestinian resistance to the Occupation, including the use of terror against civilians.

0101	Shay Hazkani MW 2:00pm - 3:15pm	Seats (Total: 30) HJP 4120

ITAL Italian Fall 2017

ITAL103 **Intensive Elementary Italian**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Italian. Credit only granted for: ITAL103 or ITAL121.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Federica Deigan TuTh 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 25) JMZ 3120 ONLINE
0201	Federica Deigan Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 25) JMZ 0120 JMZ 3120 ONLINE

ITAL121 **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

Also offered as ITAL 121H.

Contact department for information to register for this course.

ITAL121H **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

For general honors students only. Also offered as ITAL 121.

Contact department for information to register for this course.

ITAL122 **Accelerated Italian II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL121; or must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL203 or ITAL122.

Continuation of ITAL121. Completion of accelerated cycle. May be used to satisfyARHU Global Engagement requirement.

Contact department for information to register for this course.

ITAL169C **Special Topics in Study Abroad I; Italian Conversation**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169E **Special Topics in Study Abroad I; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169F **Special Topics in Study Abroad I; The Florence Experience I: Beginning Italian I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169R **Special Topics in Study Abroad I; Introduction to Italian Language and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL203 **Intensive Intermediate Italian**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed ITAL122; and must not be a fluent/native speaker of Italian. Credit only granted for: ITAL203 or ITAL122.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Federica Deigan	Seats (Total: 25)
	Th 2:00pm - 3:15pm	JMZ 0205
	Tu 2:00pm - 3:15pm	JMZ 0208
	Class time/details on ELMs	ONLINE

ITAL204 **Review Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL203 or ITAL122; or must have appropriate Foreign Language Placement Test (FLPT) score.

An intensive review of major aspects of contemporary grammatical usage; training in comprehension; an introduction to guided composition.

0101	Joseph Falvo	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 1226

ITAL207 **Reading and Writing in Italian**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: ITAL204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Italian.

Culture-based, process approach to reading and writing in Italian; selected grammatical topics.

Contact department for information to register for this course.

ITAL211 **Intermediate Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL203; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Italian.

Practice in spoken Italian based on reading and listening exercises in variety of genres. Written assignments and exams.

Contact department for information to register for this course.

ITAL269I **Special Topics in Study Abroad II; Intensive Intermediate Italian I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269R **Special Topics in Study Abroad II; Elementary Italian I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL301 **Italian Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL207; or students who have taken courses with comparable content may contact the department.

Techniques of composition; grammatical analysis; various genres; vocabulary.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 1224

ITAL306 **Commercial Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An introduction to Italian Business language and culture. Special emphasis on communicative strategies used in business transactions and applications. Reading and discussion of relevant articles relating to business world from on-line newspapers and magazines.

Contact department for information to register for this course.

ITAL369W **Special Topics in Study Abroad III; Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ITAL399 **Directed Study in Italian**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

Contact department for information to register for this course.

ITAL411 **Monsters and Demons: the Faces of Evil in Dante's Inferno**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

An interdisciplinary study of Dante's Inferno as represented in the Divine Comedy. Special emphasis on Dante's own portrayal of monsters and demons and their roles in the poet's eschatological vision of Hell.Taught in English

Contact department for information to register for this course.

ITAL431 **Italian Civilization in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL431 or ITAL432.

Political, social, intellectual, literary and artistic forces shaping contemporary Italy from the late Middle Ages to the present. Taught in English.

Contact department for information to register for this course.

ITAL471 **Italian Cinema: A Cultural Approach in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL471 or ITAL472.

The culture of Italy through the medium of film from the silent days up to the present. Taught in English.

Contact department for information to register for this course.

ITAL478R **Colloquium in Italian; Italian Renaissance**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.

This colloquium correlates with ITAL 499R.

0101	Joseph Falvo	Seats (Total: 10)
	W 1:00pm - 1:50pm	JMZ 1122

ITAL499 **Special Topics in Italian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499R **Special Topics in Italian Studies; The Italian Renaissance: Dark Shadows in the Age of Splendor and Cultural Rebirth**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In this course we will examine the dark aspects of the Italian Renaissance, focusing on artistic and literary patronage as a strategy self-promotion, and as a mean to achieve and preserve power. From the Northern court of Milan to the Southern Kingdom of Naples, this course is a revealing journey through the Italian peninsula, a land that gave birth to the great genius of the Italian Renaissance in one of the most troubled periods of Italian history, marked by political conflict, bloody rivalries, family betrayals, and wars. What hides beneath the image of some of these benevolent and enlightened patrons of learning, often praised as ideal rulers by artists and writers of the Renaissance, are ambitious and crafty politicians, who sought their own interests and goals in their ruthless pursuit of power.

0101	Joseph Falvo MW 2:00pm - 3:15pm	Seats (Total: 25) JMZ 1215

ITAL499T **Special Topics in Italian Studies; Italian Cities: History through Urban Form**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499V **Special Topics in Italian Studies; Italian Comedy on Stage and Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JAPN Japanese Fall 2017

JAPN101 **Elementary Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

This course has been put on a timed release system. Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Etsuko Yamakita, Robert Del Greco MWF 9:00am - 9:50am TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 2117 JMZ 3118

0201	Etsuko Yamakita, Robert Del Greco MWF 10:00am - 10:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 3120 JMZ 3122
0301	Etsuko Yamakita, Robert Del Greco MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 3203 JMZ 1226

JAPN106 **Introductory Japanese III**

Credits: 3 Grading Method: Regular

Prerequisite: JAPN101; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed JAPN102. Credit only granted for: JAPN102 or JAPN106.

Introduction to the basic spoken patterns of contemporary Japanese, and to limited reading and writing in kana/kanji. Intended for incoming freshmen and transfer students with some previous knowledge of Japanese.

0101	Etsuko Yamakita MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 2117

JAPN201 **Intermediate Japanese I**

Credits: 6 Grading Method: Regular CORE: HO

Prerequisite: Minimum grade of C- in JAPN102; or or appropriate Foreign Language Placement Test (FLPT) score.

Contemporary spoken and written Japanese.

0101	Kumiko Akikawa MWF 9:00am - 10:50am	Seats (Total: 15) JMZ 0120
0201	Kumiko Akikawa MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 0120

JAPN221 **Radical Transformations in Japanese Culture**

Credits: 3 Grading Method: Regular General Education: DSHU

Since the early modern period, Japanese cultural forms have reflected the innate instability of contemporary social structures. Focusing on Noh drama, Matsuo Basho's haiku travelogue Oku no hosomichi, popular fiction by Ihara Saikaku, the movement for vernacular literature in the late 19th century, the rise and fall of Marxists and feminists in early 20th century Japan, a variety of perspectives on WWII and its legacy, as well as Japanese pop culture, we will consider the way cultural works developed as part of Japan's radical transformations in the last four centuries. A major film component increases students' direct exposure to the work of Japan's cultural producers, and students' suggestions and interests will help shape the final unit of the course about Japan today. Taught in English, and all readings are in English translation.

0101	Robert Del Greco MW 2:00pm - 3:15pm	Seats (Total: 30) CHM 1228

JAPN301 **Advanced Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.

Advanced conversation, oral comprehension, and selected readings.

0101	Kazuo Yaginuma MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 1215
0201	Kazuo Yaginuma MWF 1:00pm - 2:50pm	Seats (Total: 15) JMZ 3122

JAPN311 **Traditional Japanese Language and Culture**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.

Introduction to classical Japanese language (kobun) through representative texts and genres from the literary traditions of the Heian period (794-1185) to the Early Modern period (1600-1868). Taught in Japanese and English.

0101	John Kern MW 2:00pm - 3:15pm	Seats (Total: 15) JMZ 3205

JAPN335 **Troubling Gender and Sex in Japan**

Credits: 3 Grading Method: Regular

There are a number of overly stereotypical gendered and sexualized images of Japanese in the United States. Consider, for instance, the continued dominance of the icons of Japan, the Samurai and Geisha. An examination of the wide variety of representations of femininity and masculinity and gender and sexual identities in Japan, however, offers us a fruitful opportunity to expand and challenge even our most inclusive ideas of gender and sexuality. The title of this course derives from a feminist, theoretical work by Judith Butler, Gender Trouble. Putting a critical lens to fiction, film, drama, art, and legal documents, we will trouble (complicate and deconstruct) received notions of gender and sexuality in a number of fundamental ways.

0101	Michele Mason TuTh 11:00am - 12:15pm	Seats (Total: 30) EDU 1121

JAPN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

JAPN407 **The Art of Translation**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN401; or students who have taken courses with comparable content may contact the department.

Theory and practice of translation. Variety of genres. Japanese to English.

0101	Michele Mason TuTh 2:00pm - 3:15pm	Seats (Total: 15) ASY 3203

JAPN422 **Introductory Japanese Linguistics**

Credits: 3 Grading Method: Regular

An investigation of Japanese sound patterns and syntax through a comparison with English.

0101	Samuel Ramsey MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2122

JAPN428B **Seminar in Japanese Discourse and Conversation Analysis; Japanese Business Language**

Credits: 3 Grading Method: Regular

Presentation and discussion of classic and current readings in English and Japanese on theories and actual practice of discourse and conversation analysis. Students will learn transcription techniques and have an opportunity to apply them in a final term paper.

Prerequisite: C- or better in JAPN 302 or equivalent score on FLPA. Satisfies the linguistics requirement for the Japanese major and minor. This course will introduce Japanese business language and practices from a cross-cultural, cross-linguistic perspective and is designed for intermediate to advanced level learners. Class discussions in English and Japanese will be based on oral and written samples of authentic discourse, and will acquaint students with business terminology and kanji, as well as the genres of business telephone conversations and business e-mail correspondence. Readings will be drawn from relevant fields including pragmatics, conversation and discourse analysis, anthropological linguistics, and ethnomethodology. Two to three case studies on multinational companies conducted by the Wharton School of Business will also be examined.

0101	Lindsay Yotsukura	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 1122

JAPN498G **Special Topics in Japanese Studies; From Gentlewomen to Samurai: Japanese Literature in Translation 700-1600 CE**

Credits: 3 Grading Method: Regular General Education: DSHU

Special topics in Japanese studies. Taught in English.

Students will read major and minor works of Japanese literature from the earliest legends and poetry, through the women's writing of the Heian period, to the Buddhist and warrior literature of the Kamakura and Muromachi eras. We will examine the intersection of poetry and prose, men and women's writing, and religious expression. Most of our class time will be spent in group discussion of the literary works. This course is intended for everyone -- no Japanese knowledge is required.

0101	John Kern	Seats (Total: 30)
	MW 3:30pm - 4:45pm	JMZ 2123

JAPN499 **Directed Study in Japanese**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

JOUR Journalism Fall 2017

JOUR130 **Self-Presentation in the Age of YouTube**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

Restricted to New Freshman only.

0101	Mary Burns MW 9:30am - 10:45am	Seats (Total: 22) KNI 3202
FC01	Kelly Stepno MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103
FC02	Colleen Phelps MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1105
FC03	Renee Poussaint TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1208
FC04	Kelly Stepno MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103
FC05	Mark Gray TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 3202

JOUR150 **Introduction to Mass Communication**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

0101	Krishnan Vasudevan TuTh 12:30pm - 1:45pm	Seats (Total: 35) KNI 1208	
0201	Edward Alwood TuTh 2:00pm - 3:15pm	Seats (Total: 30) KNI 1103	
0301	Edward Alwood TuTh 12:30pm - 1:45pm	Seats (Total: 35) KNI 3202	

JOUR175 **Media Literacy**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: IE, D	General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

0101	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 ESJ 1202	Discussion
0102	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 HBK 0123	Discussion
0103	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 HJP 2242	Discussion
0104	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 SYM 0215	Discussion
0105	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 ATL 2352	Discussion
0106	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 SQH 1123	Discussion

0107	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 ESJ 1202	 Discussion
0108	Susan Moeller Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) KEY 0106 HJP 2242	 Discussion

JOUR181 **Grammar for Journalists**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

The basic grammatical structures of standard American written English and its conventions of punctuation, diction and usage in journalistic writing.

0101	Linda Coleman W 3:00pm - 3:50pm	Seats (Total: 125) LEF 2205	
0201	Linda Coleman W 1:00pm - 1:50pm	Seats (Total: 70) KNI 1208	
FC01	Nabila Hijazi W 3:00pm - 3:50pm *Restricted to students in Freshman Connection.*	Seats (Total: 35) KNI 1208	

JOUR181U **Grammar for Journalists**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

The basic grammatical structures of standard American written English and its conventions of punctuation, diction and usage in journalistic writing.

Restricted to New Freshman only.

0101	Linda Coleman W 3:00pm - 3:50pm	Seats (Total: 90) LEF 2205	

JOUR199 **Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

0101	Adrianne Flynn Contact instructor or department for details.	Seats (Total: 40)

JOUR200 **Journalism History, Roles and Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

Non-journalism majors should contact the College of Journalism at (301) 405-2399 for permission to register.

0101	Pallavi Guha MW 9:30am - 10:45am	Seats (Total: 30) KNI 1208
0201	Carole Lee MW 11:00am - 12:15pm	Seats (Total: 31) KNI 3202
FC01	Justin Hudson MW 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 34) KNI 3202

JOUR200U **Journalism History, Roles and Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

Restricted to New Freshman only.

0101	Carl Stepp TuTh 11:00am - 12:15pm	Seats (Total: 30) KNI 1105
0201	Kalyani Chadha TuTh 9:30am - 10:45am	Seats (Total: 30) KNI 1103
0301	Ira Chinoy TuTh 9:30am - 10:45am	Seats (Total: 30) KNI 1208

JOUR201 **News Writing and Reporting I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

0201	Constance Ford MW 12:00pm - 1:50pm	Seats (Total: 18) KNI 2105
0301	Merrilee Cox TuTh 2:00pm - 3:50pm	Seats (Total: 18) KNI 2103

JOUR202 **News Editing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Copy editing, fact checking, verification and research across media platforms, including social, with consideration of story play and placement, graphic principles, headlines and SEO.

0101	Brian Cleveland MW 5:00pm - 6:50pm	Seats (Total: 18) KNI 2103
0201	Kathryn Wenner TuTh 2:00pm - 3:50pm	Seats (Total: 18) KNI 2105
0301	Jay Goldman TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 2107

JOUR203 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR203 or JOUR328G. Formerly: JOUR328G.

Examining the basics of producing and editing digital photos, video, and audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Timothy Jacobsen F 9:00am - 11:45am	Seats (Total: 18) KNI 2107
0201	Joshua Davidsburg Tu 12:00pm - 2:45pm	Seats (Total: 18) KNI 1101
0301	Timothy Jacobsen W 4:00pm - 6:45pm	Seats (Total: 18) KNI 1101
0401	Jaclyn Borowski M 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0501	Shanaz Baksh W 12:00pm - 2:45pm	Seats (Total: 18) KNI 2103
0601	Graham Cullen W 4:00pm - 6:45pm	Seats (Total: 18) KNI 2107
0701	Timothy Jacobsen F 12:00pm - 2:45pm	Seats (Total: 18) KNI 2107

JOUR262 **News Videography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR203. Also offered as: JOUR603. Credit only granted for: JOUR262 or JOUR603.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Alanna Delfino MW 10:00am - 11:50am	Seats (Total: 9) TWS 0222A
0201	Bethany Swain MW 10:00am - 11:50am	Seats (Total: 9) TWS 0222B
0301	Luke Rollins TuTh 7:00pm - 8:50pm	Seats (Total: 10) TWS 0222A

JOUR289E **Media Law and Ethics in the Digital Age**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

This course is intended for non-journalism majors. Explore the First Amendment, libel, privacy, FOIA and copyright as they have evolved in the digital news age of bloggers, tweeters and citizen journalists. The course will cover fundamental legal and ethical concepts as well as practical application.

0101	Deborah Nelson	Seats (Total: 72)
	Class time/details on ELMs	ONLINE

JOUR289I **Information 3.0: Exploring Technological Tools**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

This innovative course blends face-to-face and virtual meetings with state-of-the art technology that includes mobile devices, a custom course app, and social media to address the overwhelming amounts of information from an increasing number of technologies. Instead of traditional written exams assignments, students learn and apply new ways to seek, select, share & learn from digital media. Students combine text and tweets with audio and video to address the sociological and psychological benefits and consequences of emerging technologies in school, work, and play.

0101	Ronald Yaros	Seats (Total: 70)
	TuTh 11:00am - 12:15pm	KNI 1208

JOUR289J **Probing War: Investigative Narratives and American Conflicts**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

In this course, we will explore the realities of war through the work of journalists who pushed beyond the daily headlines, some risking life and limb, to challenge official versions and document uncomfortable realities about American conflicts.

0101	Christopher Hanson	Seats (Total: 30)
	MW 11:00am - 12:15pm	KNI 1103

JOUR300 **Journalism Ethics**

(Perm req)

Credits: 3 | Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Examination of ethical problems in news writing and reporting.

0101	Christopher Hanson Tu 4:15pm - 7:00pm	Seats (Total: 30) KNI 1208
0201	Sharon O'Malley TuTh 5:00pm - 6:15pm	Seats (Total: 30) KNI 1105
0301	Carl Stepp TuTh 2:00pm - 3:15pm	Seats (Total: 30) KNI 1105

JOUR320 **News Writing and Reporting II: Multiplatform**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Principles and practices of news reporting; covering news beats and other news sources, including researching news stories for accuracy, comprehensiveness and interpretation. Due to rigorous publication requirement, plan your schedule accordingly.

0101	David Lightman MW 8:00am - 9:50am	Seats (Total: 18) KNI 2105
0201	Thomas Linthicum MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 2105
0301	Elaine Povich TuTh 8:00am - 9:50am	Seats (Total: 16) KNI 2103

JOUR324 **Commentary and Editorial Writing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360. Formerly: JOUR326.

Journalistic interpretation and analysis; commentary and editorial writing.

0101	William Beecher TuTh 2:00pm - 3:15pm	Seats (Total: 18) KNI 1206

JOUR325 **Capital News Service Bureau**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism.

Advanced journalism training. Students report as part of college's Capital News Service program.

Also offered as JOUR625. Students must contact the instructor for permission to register.

0101	James Carroll Contact instructor or department for details. *This section meets in the National Press Building, Washington, DC.*	Seats (Total: 9)
0201	Karen Denny Contact instructor or department for details. *This section meets in the CNS Bureau, Annapolis, MD.*	Seats (Total: 9)
0301	Sean Mussenden Contact instructor or department for details.	Seats (Total: 9)
0401	Sean Mussenden, Brooke Auxier Contact instructor or department for details.	Seats (Total: 8)

JOUR327 **Urban Affairs Reporting**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: JOUR320; and permission of instructor. Also offered as: JOUR627. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky M 1:30pm - 4:15pm	Seats (Total: 7) Location: TBA

JOUR328B **Special Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR 320. Contact department to obtain permission. This course is designed to give students a full and wide-ranging experience in all aspects of sports journalism, including multimedia, social media, the history of the craft and other specialties in reporting, investigative journalism, writing, layout, game coverage and editing.

0101	George Solomon	Seats (Total: 15)
	M 12:00pm - 2:45pm	KNI 1206

JOUR328F **Special Topics in News Writing and Reporting; National Security and Press Freedom Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320; Credit granted for: JOUR328F, JOUR328N or JOUR462 . Students will learn to research and report on select U.S. agencies, on on bilateral relations, on Washington's many national security resources , and on press freedom problems overseas.

0101	Karin Assmann, Dana Priest	Seats (Total: 11)
	M 2:30pm - 5:15pm	KNI 3200

JOUR328M **Special Topics in News Writing and Reporting; Magazine Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320. Students will be introduced to the magazine publishing industry, which grew over the last decade despite the economic downturn and now faces new challenges from emerging digital platforms and changing consumer habits.

0101	Sarah Schaffer	Seats (Total: 17)
	Tu 5:00pm - 7:45pm	KNI 2105

JOUR350 **Multimedia Presentation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR202; or minimum grade of C- in JOUR262. Credit only granted for: JOUR350 or JOUR373.

An examination of the relationship of verbal and visual components of news content and the presentation of information in print and online publications by combining typography, graphics, images and interactivity using current digital technologies.

0101	George Lanum TuTh 12:00pm - 1:50pm	Seats (Total: 18) KNI 2103

JOUR352 **Interactive Design and Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Also offered as: JOUR352. Credit only granted for: JOUR352 or JOUR652.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools, JavaScript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.

0201	Alexander Pyles Tu 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0301	Leslie Walker W 11:00am - 1:45pm	Seats (Total: 18) KNI 2107
0401	Leslie Walker M 1:00pm - 3:45pm	Seats (Total: 18) KNI 2107
0501	Gagan Nirula Th 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101

JOUR353 **News Bureau: Multimedia Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR352; and permission of JOUR-Philip Merrill College of Journalism; and (JOUR320 or JOUR360).

Advanced reporting and writing in an online environment focusing on multimedia, non-traditional storytelling and investigative reporting.

Students must contact the instructor for permission to register for the course. College Park students should enroll in section 0101. Annapolis students should enroll in section 0201. Washington, D.C. students should enroll in section 0301.

0201	Karen Denny Contact instructor or department for details.	Seats (Total: 7)
0301	James Carroll Contact instructor or department for details.	Seats (Total: 7)

JOUR355 **News Bureau: Multimedia Editing and Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: JOUR320 or JOUR360; and JOUR352; and permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as multimedia and social media editors and producers, building interactive content and special reports.

0101	Sean Mussenden Contact instructor or department for details.	Seats (Total: 10)
0201	Brooke Auxier, Sean Mussenden Contact instructor or department for details.	Seats (Total: 8)

JOUR358V **Special Topics in Visual Communication; 360-Video, Virtual Reality and Augmented Reality**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in visual communication.

Prerequisite: JOUR320 or JOUR360; and permission of Associate Dean Rafael Lorente (rlorente@umd.edu). Working with 360-degree cameras, students will learn to tell stories in these emerging media, as well as explore theoretical and ethical issues around the application of these technologies. The course will also explore motion sensing and area capture, as well as other technologies in order to build toward groundbreaking ways of presenting information and engaging audiences. Course meets at Newseum.

0101	Steven Johnson, Mitchell Gelman F 10:00am - 12:45pm	Seats (Total: 12) Location: TBA

JOUR360 **News Writing and Reporting II: Broadcast**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Writing and reporting for broadcast media: production of news stories.

0101	Cassandra Clayton MW 11:00am - 12:15pm	Seats (Total: 18) KNI 1101
0201	Stuart Schwartz TuTh 12:30pm - 1:45pm	Seats (Total: 18) KNI 2107
0301	Cassandra Clayton MW 12:30pm - 1:45pm	Seats (Total: 18) KNI 1101

JOUR361 **Television Reporting and Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360.

Writing and editing for the broadcast media. Interpretive and documentary news stories.

Due to rigorous fieldwork requirement, plan your schedule accordingly.

0101	Paul Gessler TuTh 7:00pm - 8:50pm	Seats (Total: 12) TWS 0222B
0301	Adam Longo TuTh 12:00pm - 1:50pm	Seats (Total: 12) TWS 0222A
0501	Joshua Davidsburg TuTh 10:00am - 11:50am	Seats (Total: 12) TWS 0222B

JOUR362 **Broadcast News Producing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360; and must have completed or be concurrently enrolled in JOUR361.

Producing TV news.

0102	Cindy Wright	Seats (Total: 2)	
	Tu 7:15pm - 9:15pm	TWS 0117	
	Tu 2:00pm - 6:50pm	TWS 0117	Lab
0104	Cindy Wright	Seats (Total: 2)	
	Tu 7:15pm - 9:15pm	TWS 0117	
	Th 2:00pm - 6:50pm	TWS 0117	Lab

JOUR364 **Radio Broadcasting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR360; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR364 or JOUR368R. Formerly: JOUR368R.

Students receive hands-on training in applying what they have learned about news reporting to the preparation of stories for, and the production of, a weekly radio program.

0101	Robert Little	Seats (Total: 12)
	Th 7:00pm - 9:45pm	KNI 2103

JOUR367 **Broadcast News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the college's Capital News Service program.

Also offered as JOUR667.

0101	Susan Katcef	Seats (Total: 15)
	Contact instructor or department for details.	

JOUR368B **Topics in Broadcast and Electronic Media; Broadcast Sports Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262, JOUR360, JOUR361, and permission of department. At the completion of this course, students will be able to find and execute sports-related stories, anchor, and do simulations of live shots.

0101	David Owens	Seats (Total: 12)
	W 3:30pm - 6:15pm	KNI 1109

JOUR368K **Topics in Broadcast and Electronic Media; Video Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of the instructor (jdavidsb@umd.edu). Students will explore the intersection between social media, video and a live broadcast by creating new and innovative ways to "broadcast" news to an audience. The class will encourage an entrepreneurial spirit and give students the opportunity to produce a show from scratch, with content aired on UMTV and online. In addition to creating television, students will support the broadcast arm of Capital News Service by managing volunteers, filling in on the studio staff and producing special projects and graphics when necessary.

0101	Joshua Davidsburg	Seats (Total: 8)
	Tu 2:45pm - 5:30pm	TWS 0222B

JOUR368N **Topics in Broadcast and Electronic Media; Producing National News**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR320 or JOUR360; and permission of instructor. Students will explore what it takes to be a field producer at the network level. They will examine the conceptual, research, reporting, and writing skills that create in-depth television stories. They will study award-winning stories and meet their producers.

0101	Thomas Bettag	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	KNI 3200

JOUR368T **Topics in Broadcast and Electronic Media; On-Camera Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262 and JOUR360. This course will help students hone their skills in anchoring, stand-ups, live shots and interviewing. Students will learn how to use their voice as a tool of journalistic expression - to give their reporting a compelling presentation. After this class, students will be able to write stand-ups quickly, write copy that's conversational, clear and crisp, and be comfortable at the anchor desk.

0101	Cassandra Clayton M 2:30pm - 5:15pm	Seats (Total: 12) KNI 1101

JOUR368V **Topics in Broadcast and Electronic Media; Advanced Video Storytelling**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi-platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Bethany Swain M 1:00pm - 4:00pm	Seats (Total: 9) TWS 0222B

JOUR368Y **Topics in Broadcast and Electronic Media; Sports Producing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262 and JOUR360; or JOUR320. This class will take an analytical look at sports TV and sports content by deconstructing shows. We will examine the producer's role in creating the look, feel and direction of shows and learn how to choose a lead story, how to "tease" effectively and the importance of identifying and telling good stories. We will watch live televised sporting events to better understand the techniques used by directors and producers. Students will get hands-on experience with BTN2GO and learn all aspects of live game production.

0101	Joseph Yasharoff W 7:00pm - 9:45pm	Seats (Total: 12) KNI 2103

JOUR370 **Photojournalism**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR320 or JOUR360. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Formerly: JOUR 368P. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0101	Gregory Kendall-Ball Tu 6:00pm - 8:45pm	Seats (Total: 12) KNI 2103
0201	Jonathan Sham M 7:00pm - 9:45pm	Seats (Total: 12) KNI 2103

JOUR396 **Supervised Internship**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320 or JOUR360. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

0101	Adrianne Flynn Contact instructor or department for details.	Seats (Total: 45)

JOUR398 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department for information to register for this course.

JOUR399 **Supervised Internship**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised news internship experience; relation of academic training to professional experience.

Prerequisite: Grade of C- or better in JOUR320 or JOUR360. Credit will be granted for only one of the following: JOUR326, JOUR366, JOUR396 or JOUR399. Supervised news internship experience; relation of academic training to professional experience. Students must pick up an internship agreement form in KNI 1100, have the internship supervisor fill it out, and meet with the Internship Director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted.

0101	Adrianne Flynn	Seats (Total: 75)
	Contact instructor or department for details.	

JOUR400 **Media Law**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320, JOUR360, or JOUR501. Restriction: Junior standing or higher.

Legal rights and constraints of mass media; libel, privacy, copyright, monopoly, contempt, and other aspects of the law applied to mass communication. Previous study of the law not required.

Restricted to students having earned at least 60 credits.

0101	Deborah Nelson	Seats (Total: 44)
	M 4:00pm - 5:15pm Class time/details on ELMs	KNI 1208 ONLINE
0201	Sandra Banisky	Seats (Total: 41)
	TuTh 11:00am - 12:15pm	KNI 3202

JOUR405 **Breaking News With Numbers: Statistics for Journalists**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Minimum grade of C- in JOUR201; and (MATH107 or MATH110; or must have completed a higher level math course). Or have permission of the instructor. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Common statistical tools, software and data visualization techniques will be used to allow students to analyze data and solve problems relevant to reporting and writing about politics, sports, criminal justice, business and other fields.

0101	Tom Brune	Seats (Total: 38)
	Class time/details on ELMs	ONLINE

JOUR452 **Women in the Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Restriction: Junior standing or higher. Also offered as: WMST452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	KNI 3202

JOUR453 **News Coverage of Racial Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Restriction: Junior standing or higher.

Analysis of news media coverage of issues relating to racial minorities in the United States, with special attention to Hispanics, Asian Americans, African Americans and Native Americans.

Also offered as AASP 499N.

0101	Anne Rosen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	KNI 3202

JOUR456 **Literature in Journalism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Also offered as: JOUR673. Credit only granted for: JOUR456 or JOUR673.

From Truman Capote's In Cold Blood to Mark Bowden's Black Hawk Down, students will examine how literary works can help writers approach a subject in a different way than more traditional forms of journalism, including the advantages and limitations of the style.

0101	Sohana Nasrin, Kevin Klose	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	KNI 1206

JOUR458B **Special Topics in Journalism; Sports Media Today**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

Students will discuss working with various organizations' communications/media relations staff, coaches and players; distributing news of the organizations; and creating/maintaining methods for disseminating the news to the public in an honest and forthright manner. Also, traditional, digital and social media elements will be explored. Restriction: Junior Standing or higher.

0101	Beth Mechum	Seats (Total: 25)
	Th 3:30pm - 6:15pm	KNI 1208

JOUR458M **Special Topics in Journalism; Sports, Protest, and the Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

This class will examine the development of our games, the history of of remonstration upon them and the machinations of media at the intersection of the two. It will answer why activists, whether athletes or not, have long commanded ceremonial and ritualistic games to promote a cause or take a stand. It will examine how important the role is of media as a collector, editor, interpreter, and disseminator of information, or news, about athletic competitions, athletes, and political pronouncements revolving around athletic events and their participants.

0101	Kevin Blackistone	Seats (Total: 16)
	MW 10:00am - 11:15am	KNI 1206

JOUR459F **Special Topics in Journalism; Media in War and Crisis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459K **Special Topics in Journalism; Global Media and International Journalism in the 21st Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459L **Special Topics in Journalism; European Mass Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459T **Special Topics in Journalism; Press Freedom and the Rise of Disinformation/Fake News in the United States and Abroad**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

This class will examine the emerging tensions and challenges of maintaining the flow of accurate, independent news to the public using four case studies: The United States, Russia and two others. We will examine the notion of "press freedom" as a basic human right, opponents of that view, and global trends in the last decade that are undermining that freedom, including the contradictory role the U.S. has played in both strengthening and weakening press freedom in emerging democracies. Then, we will explore forms of censorship, the state's and private industry's role in the shaping of the media environment and the rise of disinformation/fake news.

0101	Karin Assmann, Dana Priest	Seats (Total: 13)
	M 10:00am - 12:45pm	KNI 3200

JOUR459V **Special Topics in Journalism; Media and International Affairs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR472 **Computer-Assisted Reporting**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360.

Computer and online data acquisition; analytical methods for writing and reporting news.

Students must contact Associate Dean Rafael Lorente for permission to register.

0101	Daniel Keating	Seats (Total: 5)
	TuTh 9:00am - 10:50am	KNI 2105

JOUR476 **Researching Emerging Media in Journalism: Past, Present and Future**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Prerequisite: Must have completed a university statistics course. Credit only granted for: JOUR479W or JOUR476. Formerly: JOUR479W.

Students will examine developments billed as innovative in the current technology-laden news ecology -- such as social media, mobile reporting and virtual reality -- and the blurring of lines between hard news, informed opinion and advocacy. While questions about the future cannot be answered with any certainty, an exploration of the past allows us to see what happened when new technologies, information systems and practices appeared as possible tools for use by journalists and the communities they served. Students will learn to use resources for researching emerging media, including UMD library databases and open access sources. The course will include presentations by the instructor, discussions, field trips, in-class exercises and student presentations. Each student will engage in a research project to understand the experience of emerging media in a decade between 1820 and 1980. Students will also write an essay contemplating current trends and the future of emerging media.

0101	Ira Chinoy	Seats (Total: 18)
	MW 9:30am - 10:45am	KNI 1101

JOUR479A **Special Topics in Data Gathering and Analysis; Web Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: JOUR352; and permission of Associate Dean Rafael Lorente (rlorente@umd.edu). Students will learn how to analyze and measure digital audiences using real-time analytics tools. We'll explore which metrics matter (page views, unique visitors, time on site, referrals, etc.) and how to define success. Course meets at The Washington Post.

0101	Mark Smith	Seats (Total: 12)
	F 10:00am - 12:45pm	Location: TBA

JOUR479C **Special Topics in Data Gathering and Analysis; Understanding the Economy and Business**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: Must have complete a university statistics course. This class, designed for journalism and non-journalism undergraduates, introduces students to the major economic and business themes that dominate news coverage and explains how reporters gather and analyze data to write these stories. Topics discussed will include: income inequality, economic growth, the stock market, investing, immigration, international trade, corporate strategy, real estate, the Federal Reserve and mergers & acquisitions. This class will be helpful to students who want to understand how the economy and the stock market work, why globalization is shifting and how the biggest corporations--including technology companies--compete for market share.

0101	Constance Ford	Seats (Total: 15)
	MW 3:00pm - 4:15pm	KNI 2103

JOUR479I **Special Topics in Data Gathering and Analysis; Seeing- Media, Images & Design**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: A university statistics course. This course will introduce students to the expanding ways the "visual" is embedded in all we do and all that we are. Students will tackle challenges of why "seeing" matters and in so doing will learn visual theory. Media have become less about words and more about sight: Students will consider the ethics and impact of images on people and politics and turn those lessons into an examination of the methods of research projects where images are the data. What do we see? What don't we see? Students will analyze and deconstruct images created by others and use those insights to inform their own creation of a culminating visual journalism research project.

0101	Susan Moeller	Seats (Total: 18)
	TuTh 11:00am - 12:15pm	KNI 2105

JOUR479O **Special Topics in Data Gathering and Analysis; Understanding Audiences**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. As journalism evolves, it may be more important than ever to understand what were once simply called "audiences"- who they are, how they consume news, and what that engagement means for them and for society. Students will learn to think critically about news audiences and contemporary issues in audience research.

0101	Ronald Yaros	Seats (Total: 18)
	TuTh 2:00pm - 3:15pm	KNI 2107

JOUR480 **Capstone Colloquium: The Business of News**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and junior standing or higher; and permission of JOUR-Philip Merrill College of Journalism.

Students will learn the basic news business concepts and examine how revenue and cost structures for media businesses are evolving in new directions. Topics include basic principles and concepts that drive media businesses in the Internet age, including revenue sources, dynamics of online advertising and subscriptions, mobile media strategies, user metrics, engaging audiences, and market dynamics.

0101	Leslie Walker	Seats (Total: 70)
	Meets August 28, 2017 - October 16, 2017	
	M 5:30pm - 7:20pm	KNI 1208
	Schedule adjustment is the first week of classes only.	

JOUR501 **Fundamentals of Writing and Editing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Principles of news and feature writing. For graduate students with limited prior training or experience in journalism.

0101	Christine Harvey	Seats (Total: 18)
	TuTh 10:00am - 11:50am	KNI 2107

JOUR504 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: JOUR501; or permission of instructor. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR504 or JOUR628G. Formerly: JOUR628G.

Examining the basics of producing and editing digital photos, video, and audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Mauro Whiteman	Seats (Total: 12)
	F 9:00am - 11:45am	KNI 2105

JOUR601 **Theories of Journalism and Public Communication**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Survey and evaluation of current communication theories. Attention is given to the nature and function of scientific theory, models of communication behavior, the nature of information, social functions of journalism and public communication, attitude change and persuasive communication and theories of language and meaning.

0101	Linda Steiner W 1:00pm - 3:45pm	Seats (Total: 10) KNI 2109

JOUR603 **News Videography**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: JOUR504; and permission of Journalism College required. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR262. Credit only granted for: JOUR503 or JOUR603. Formerly: JOUR503.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Bethany Swain MW 10:00am - 11:50am	Seats (Total: 2) TWS 0222B
0201	Alanna Delfino MW 10:00am - 11:50am	Seats (Total: 2) TWS 0222A

JOUR604 **Introduction to Multimedia Skills for Graduate Certificate Programs**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of JOUR-Philip Merrill College of Journalism; and must not have completed JOUR504. Credit only granted for: JOUR 604, JOUR504, or JOUR628G. Formerly: JOUR628G. Additional information: This course is for students enrolled in graduate certificate programs in the College of Journalism.

Examine the basics of producing and editing digital photos, video and audio for news. Topics include framing, lighting and other aspects of composition; sequencing, using wide, medium and tight shots; and ethical considerations when collecting sound and visuals.

PCJ1	Shanaz Baksh, Jennifer Rynda Sa 8:30am - 12:15pm *Restricted to students in the Multimedia Journalism Certificate program.The course runs from Sept. 9, 2017 to Dec. 16, 2017 and will not meet the following dates: Sept. 30, 2017, Oct. 21, 2017 and Nov. 25, 2017.*	Seats (Total: 15) KNI 1101

JOUR620 **Public Affairs Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: JOUR501; or permission of JOUR-Philip Merrill College of Journalism.

Designed to add to and sharpen the skills learned in JOUR501. It is primarily an introduction to "beat" reporting that allows students to sample the most common new beats while reporting and writing on deadline. Students are required to develop and hone their multimedia skills by reporting in a variety of media.

0301	Elaine Povich TuTh 8:00am - 9:50am	Seats (Total: 2) KNI 2103

JOUR625 **Advanced Capital News Service Bureau**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Prerequisite: JOUR620; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR625 or JOUR729. Formerly: JOUR729.

Advanced journalism training. Students report as part of College's Capital News Service program.

0101	James Carroll Contact instructor or department for details.	Seats (Total: 10)
0201	Karen Denny Contact instructor or department for details.	Seats (Total: 10)

JOUR627 **Urban Affairs Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: JOUR501; and permission of JOUR-Philip Merrill College of Journalism. Corequisite: JOUR620; or permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR327. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky M 1:30pm - 4:15pm	Seats (Total: 6) Location: TBA

JOUR628B **Specialized Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Course shares space with JOUR328B. This course is designed to give students a full and wide-ranging experience in all aspects of sports journalism, including multimedia, social media, the history of the craft and other specialties in reporting, investigative journalism, writing, layout, game coverage and editing.

0101	George Solomon M 12:00pm - 2:45pm	Seats (Total: 3) KNI 1206

JOUR628M **Specialized Topics in News Writing and Reporting; Magazine Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Students will be introduced to the magazine publishing industry, which grew over the last decade despite the economic downturn and now faces new challenges from emerging digital platforms and changing consumer habits.

0101	Sarah Schaffer Tu 5:00pm - 7:45pm	Seats (Total: 1) KNI 2105

JOUR628N **Specialized Topics in News Writing and Reporting; National Security and Press Freedom Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Students will learn to research and report on select U.S. agencies, on bilateral relations, on Washington's many national security resources, and on press freedom problems overseas. Credit only granted for: JOUR628N or JOUR762.

0101	Karin Assmann, Dana Priest M 2:30pm - 5:15pm	Seats (Total: 5) KNI 3200

JOUR652 **Interactive Design and Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: Offered to students enrolled in the journalism master's degree or certificate. Master's degree students should take JOUR 504 as a pre- or co-requisite. Certificate students are encouraged to take JOUR 604 as a co-requisite. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR652 or JOUR352.

Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools and JavaScript libraries to create charts, timelines and maps to tell stories.

0101	Sean Henderson Th 7:00pm - 9:45pm	Seats (Total: 14) KNI 2105
PCJ1	Mark Smith Sa 1:30pm - 5:15pm *Restricted to students in the Multimedia Journalism Certificate program. The course runs from Sept. 9, 2017 to Dec. 16, 2017 and will not meet the following dates: Sept. 30, 2017, Oct. 21, 2017 and Nov. 25, 2017.*	Seats (Total: 15) KNI 2105

JOUR655 **Advanced Online News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR603 or JOUR620; and (JOUR504 and JOUR652). Or permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as online reporters, editors and producers for a news site. Students also package copy from the print and broadcast news bureaus.

Prerequisites: JOUR 620 and 652 or equivalent. Contact the instructor to obtain permission. Course shares space with JOUR355.

0101	Sean Mussenden F 9:00am - 5:00pm	Seats (Total: 4) KNI 3210
0201	Sean Mussenden, Brooke Auxier Contact instructor or department for details.	Seats (Total: 4)

JOUR662 **Broadcast News Producing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in JOUR661; and (JOUR603 and JOUR660). Also offered as: JOUR362. Credit only granted for: JOUR668B or JOUR662. Formerly: JOUR668B.

Learn and practice the basics of broadcast newscast producing. Design, write, edit and implement a news program.

0101	Cindy Wright	Seats (Total: 2)	
	Tu 7:15pm - 9:15pm	TWS 0117	
	W 2:00pm - 6:50pm	TWS 0117	Lab

JOUR667 **Broadcast News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR503; or students who have taken courses with comparable content may contact the department. And permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

Also offered as JOUR367.

0101	Susan Katcef	Seats (Total: 15)
	Contact instructor or department for details.	

JOUR668K **Topics in Broadcasting and Electronic Media; Video Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR661 and permission of the instructor (jdavidsb@umd.edu). Students will explore the intersection between social media, video and a live broadcast by creating new and innovative ways to "broadcast" news to an audience. The class will encourage an entrepreneurial spirit and give students the opportunity to produce a show from scratch, with content aired on UMTV and online. In addition to creating television, students will support the broadcast arm of Capital News Service by managing volunteers, filling in on the studio staff and producing special projects and graphics when necessary.

0101	Joshua Davidsburg Tu 2:45pm - 5:30pm	Seats (Total: 2) TWS 0222B

JOUR668N **Topics in Broadcasting and Electronic Media; Producing National News**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR620 or JOUR660; and permission of instructor. Students will explore what it takes to be a field producer at the network level. They will examine the conceptual, research, reporting, and writing skills that create in-depth television stories. They will study award-winning stories and meet their producers.

0101	Thomas Bettag TuTh 11:00am - 12:15pm	Seats (Total: 2) KNI 3200

JOUR668R **Topics in Broadcasting and Electronic Media; 360-Video, Virtual Reality & Augmented Reality**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR620 or JOUR660; and permission of Associate Dean Rafael Lorente (rlorente@umd.edu). Working with 360-degree cameras, students will learn to tell stories in these emerging media, as well as explore theoretical and ethical issues around the application of these technologies. The course will also explore motion sensing and area capture, as well as other technologies in order to build toward groundbreaking ways of presenting information and engaging audiences. Course meets at Newseum.

0101	Steven Johnson, Mitchell Gelman F 10:00am - 1:45pm	Seats (Total: 1) Location: TBA

JOUR668V **Topics in Broadcasting and Electronic Media; Advanced Video Storytelling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR661 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi- platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Bethany Swain	Seats (Total: 3)
	M 1:00pm - 4:00pm	TWS 0222B

JOUR698 **Special Problems in Communication**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR702 **Journalism Law and Ethics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Journalism - Master (Master's); Journalism Studies (Doctoral)) ; or permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR400, JOUR 600, JOUR700, or JOUR 702.

An examination of the legal rights and ethical problems and constraints of mass media, including libel, privacy, copyright, monopoly and contempt.

0101	Sandra Banisky	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KNI 1208

JOUR772 **Methods in Computer-Assisted Reporting**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR501; or students who have taken courses with comparable content may contact the department.

Computer-assisted (database) journalism; obtaining, manipulating and analyzing complex government data for journalism projects.

0101	Daniel Keating	Seats (Total: 13)
	TuTh 9:00am - 10:50am	KNI 2105

JOUR775 **Quantitative Methods in Journalism and Public Communication Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: JOUR701 or JOUR775. Formerly: JOUR701.

Logic and methods of quantitative data collection and statistical analysis as applied to journalism and public communication studies.

0101	Ronald Yaros	Seats (Total: 8)
	F 10:00am - 12:45pm	KNI 2109

JOUR798 **Master's Professional Fieldwork**

(Perm req)

Credits: 2-6 Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in th media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

JOUR800 **Introduction to Doctoral Study in Journalism and Public Communication**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: JOUR700 or JOUR800. Formerly: JOUR700.

Basic skills in journalism and public communication research.

0101	Sarah Oates	Seats (Total: 10)
	W 9:00am - 11:45am	KNI 2109

JOUR888 **Doctoral Professional Field Work**

Credits: 3-9 Grading Method: Regular, Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Credits: 3-9 Grading Method: Regular, Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JWST Jewish Studies Fall 2017

JWST219C **Special Topics in Jewish Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219D **Special Topics in Jewish Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219E **Special Topics in Jewish Studies; Writing Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST233 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSHU, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: HIST287. Credit only granted for: JWST233 or HIST287.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

0101	Bernard Cooperman	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KEY 0100

JWST262 **Introduction to the Hebrew Bible/Old Testament**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: ENGL262. Credit only granted for: JWST262, HEBR223 or ENGL262. Formerly: HEBR223.

Origins of the Hebrew Bible (Old Testament), with attention to literary formations, archaeology, and social-political settings. Explorations of major questions, including who wrote the Bible, and when; relationships of the biblical tradition to the mythology and religious structures of ancient Israel's near eastern neighbors; and dynamics of politics, religious leadership, and law.

0101	Matthew Suriano	Seats (Total: 30)
	MW 4:00pm - 5:15pm	KEY 0100

JWST272 **Introduction to Jewish Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, DVUP

Also offered as: CMLT242. Credit only granted for: CMLT242 or JWST272.

A survey of Jewish literature and introduction to methods of reading literature in general and Jewish literature in particular. Concern with what makes a literary corpus Jewish and other issues of canonicity. All texts in English translation.

0101	Adi Mahalel	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	ONLINE

JWST282 **Elementary Yiddish II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JWST281; or permission of ARHU-Meyerhoff Program & Center for Jewish Studies.

Continuation of JWST281.

Also offered as GERM149Z. Credit granted for JWST282 or GERM149Z.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 15) SQH 1125	

JWST289A **New Explorations in Jewish Studies; The Million that's gone: The Jews of Muslim Lands in Modern Time**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Investigation of critical and innovative responses in Jewish Studies. Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as HIST219C. Credit granted for JWST289A or HIST219C. Examines the complex and fraught history of the Jews of Muslim lands in modern times, a population reduced from about one million a century ago to several tens of thousands today.

0101	Shay Hazkani TuTh 11:00am - 12:15pm	Seats (Total: 30) HJP 2118	

JWST289E **New Explorations in Jewish Studies; Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Investigation of critical and innovative responses in Jewish Studies. Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as HIST135. Credit granted for HIST135 or JWST289E. An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

0101	Bernard Cooperman MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) ESJ 2204 KEY 0121	 Discussion
0102	Bernard Cooperman MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) ESJ 2204 KEY 0117	 Discussion

0103	Bernard Cooperman MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2204 ASY 3217	Discussion
0104	Bernard Cooperman MW 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 20) ESJ 2204 KEY 0121	Discussion

JWST289J **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP, SCIS

Also offered as RELS289J. Credit will be granted for JWST289J or RELS289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine the development of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the Church of the Holy Sepulchre and the Mount of Olives), and Islam (the Dome of the Rock and the Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion
0102	Matthew Suriano MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 WDS 1130	Discussion
0103	Matthew Suriano MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 ASY 3215	Discussion
0104	Matthew Suriano MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion

JWST319B **Special Topics in Jewish Studies; Arab-Israeli Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319E **Special Topics in Jewish Studies; Literature of the Shoah**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319M **Special Topics in Jewish Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Topics in Jewish Studies.

Also offered as ISRL349Z. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

JWST326 **Jews and Judaism in Antiquity II: First through Seventh Centuries**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, DVUP

Also offered as: HIST371. Credit only granted for: HIST371 or JWST326.

Political, social, and religious history of the Jews from the destruction of the Jerusalem Temple in 70 CE to the Muslim conquests. Special attention to the political transformations in Judaism under late Roman Christianity, and the rise of the Rabbinic movement.

0101	Hayim Lapin	Seats (Total: 30)
	Tu 4:00pm - 6:30pm	KEY 0100

JWST341 **American Jewish Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: ENGL331. Credit only granted for: ENGL379L (Spring 2013), HONR229G (Spring 2008), JWST319T(Spring 2013), ENGL331, or JWST341. Formerly: ENGL379L and JWST319T.

An exploration of the role played by literature in the development of American Jewish ethnic identity. Primary materials include essays, poetry, plays, short stories, novels, films and music.

0101	Sheila Jelen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 0221

JWST346 **Representing the Holocaust**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Also offered as: ENGL332. Credit only granted for: ENGL379J, JWST419I, ENGL332, or JWST346. Formerly: ENGL379J and JWST419I.

Different perspectives on how the Holocaust should be represented. Examination of a wide range of texts including fiction, memoirs, critical essays, poems and films in different languages (in translation). Emphasis on the international and comparative nature of Holocaust literary studies and investigation into the propriety of literary representation of historical catastrophe. Consideration of our own role as readers serving as witnesses to an event that has marked itself indelibly in the aesthetic history of the twentieth century.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TWS 0236

JWST369A **Special Topics in Study Abroad III; The Holocaust: 20th Century Jewish Thought**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST369R **Special Topics in Study Abroad III; Italy and the Jews: History and Culture from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST370 **Before the Holocaust: The Golden Age of Eastern European Jewry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: JWST419E, JWST370, or HIST419Q. Formerly: JWST419E.

An exploration of the history of the Jews of Eastern Europe from the period of the Polish Lithuanian Commonwealth until the Holocaust. Topics to be covered include religious, political, social, and cultural transformation of Jewish life in Eastern Europe in the context of the general political changes in the area.

Also offered as HIST419Q.

0101	Rachel Manekin	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1107

JWST386 **Experiential Learning in Jewish Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Restriction: Junior standing or higher.

The Jewish Studies Program's internship program. Pre-professional experience in research, analysis, and writing related to Jewish Studies in a variety of work settings.

0101	Instructor: TBA	Seats (Total: 15)
	Contact instructor or department for details.	

JWST409A **Research Seminar in Jewish Studies; Literature and Jewish Life in Eastern Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

0101	Rachel Manekin	Seats (Total: 7)
	TuTh 3:30pm - 4:45pm	SQH 1125

JWST419V **Special Topics in Jewish Studies; Understanding Jewish Religious Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as RELS419V. Credit granted for JWST419V or RELS419V. Explores the concept of "religious experience" -- including mysticism, heavenly ascents, and altered consciousness -- and considers whether such experiences are central to the Jewish religious tradition. Draws upon recent work in sociology, psychology, and cognitive studies of religion, while using examples from the history of Judaism and contemporary Jewish culture.

0101	Maxine Grossman	Seats (Total: 30)
	MW 2:00pm - 3:15pm	SQH 1121

JWST429B **Advanced Topics in Jewish Studies; Classical Arabic Philosophy by Muslims and Jews**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Special topics at an advanced level for Jewish Studies. Primarily intended for majors and graduate students.

Also offered as PHIL428B. Credit granted for PHIL428B or JWST429B. This course is an introduction to classical Arabic philosophy from the ninth to the thirteenth centuries of the Christian era. But unlike most courses on this topic, we shall not be reading philosophy soley by Muslims but also by Jews (and maybe Christians). In a sense, the course is best described by the title of the book by Dimitri Gutas, "Greek Thought, Arabic Culture".

0101	Charles Manekin	Seats (Total: 30)
	M 3:30pm - 6:00pm	KEY 0123

JWST429D **Advanced Topics in Jewish Studies; 1967 and its Aftermath: How they Changed Israel and the Mideast**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics at an advanced level for Jewish Studies. Primarily intended for majors and graduate students.

Also offered as ISRL448T and HIST428X. Credit granted for ISRL448T, HIST428X, or JWST429D. The Six Day/June War of 1967 helped set into motion a series of events that reverberate today. This seminar will examine the results of the war, focusing primarily on the Israeli Occupation of the West Bank, the ensuing radical transformation of Israeli policy towards Palestinians, and its impact on their daily lives. It will also examine Palestinian resistance to the Occupation, including the use of terror against civilians.

0101	Shay Hazkani	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HJP 4120

JWST459M **Readings in Medieval Hebrew; Moses Maimonides' Religious and Ethical Thought**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Readings and analysis of Hebrew texts and literature from the Middle Ages. Language of instruction in English; all texts in Hebrew.

Also offered as PHIL428M. Credit granted for PHIL428M or JWST459M. A seminar in the philosophy of Moses Maimonides, the great medieval Jewish religious thinker. The course will focus on the disputed questions in the interpretation of Maimonides, such as his views on Divine attributes, creation, providence, prophecy, the rationale of the Law, moral and intellectual perfection, and the limitations of human knowledge. No knowledge of Hebrew or Arabic is required.

0101	Charles Manekin	Seats (Total: 15)
	Th 2:00pm - 4:30pm	SQH 4116

JWST499 **Independent Study in Jewish Studies; Independent Study in Jewish Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

JWST600 **General Seminar in Jewish Studies**

Credits: 3 Grading Method: Regular

Introduce graduate students to the fields, problems, and basic methods of research in the comtemporary practice of Jewish Studies. Consideration of chronological and historiographical problems, questions of the development of Jewish thought and literature and Jewish religious and cultural history in four rough chronological periods: Biblical Israel, Judaism in Antiquity, Judaism in the Middle Ages and Early Modern Period, and Modern Judaism.

0101	Matthew Suriano	Seats (Total: 12)
	M 6:30pm - 9:00pm	SQH 4135

JWST648 **Readings in Jewish History**

(Perm req)

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Contact department for information to register for this course.

JWST658 **Readings in Jewish Thought and Culture**

(Perm req)

Credits: 3 Grading Method: Regular

Examines key issues in the development of Jewish thought and culture.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines key issues in the development of Jewish thought and culture.

Contact department for information to register for this course.

JWST678 **Readings in Jewish Literature**

(Perm req)

Credits: 3 Grading Method: Regular

Examines selected themes or literatures in the development of Jewish literary traditions.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines selected themes on literatures in the development of Jewish literary traditions.

Contact department for information to register for this course.

JWST699 **Independent Graduate Readings in Jewish Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent readings or guided research in a field of Jewish Studies with a member of the Jewish Studies graduate faculty.

Contact department for information to register for this course.

JWST699N **Independent Graduate Readings in Jewish Studies; Middle East Studies Graduate Colloquium**

Credits: 1 Grading Method: Regular

Independent readings or guided research in a field of Jewish Studies with a member of the Jewish Studies graduate faculty.

Also offered as JWST699N. Credit granted for HIST619Z or JWST699N. Contact instructor for information, pwien@umd.edu.

0101	Instructor: TBA	Seats (Total: 20)
	Contact instructor or department for details.	

JWST799 **Masters Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Sat-Fail

Research and Writing the Masters Thesis in Jewish Studies.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES100N **Physical Education Activities: Coed; Basketball (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0001	Andrew Ginsberg **Meets August 28, 2017 - October 13, 2017** TuTh 8:00am - 10:00am *Meets first 7 weeks.*	Seats (Total: 32) ERC 0135	Lab
0002	Andrew Ginsberg **Meets October 16, 2017 - December 11, 2017** TuTh 8:00am - 10:00am *Meets second 7 weeks.*	Seats (Total: 32) ERC 0135	Lab

KNES100O **Physical Education Activities: Coed; Basketball (Intermediate)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Timothy Henkel MW 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 32) ERC 0135	Lab
0003	Gina Garcia MW 10:00am - 12:00pm *This section is for KNES Majors only.*	Seats (Total: 32) ERC 0135	Lab
0004	Andrew Ginsberg TuTh 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 32) ERC 0135	Lab

KNES131O **Physical Education Activities: Coed; Jogging (Intermediate)**

Credits: 2 Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee. Attendance is required of all students beginning the first day of class.

0001	Andrea Romeo	Seats (Total: 40)	
	TuTh 2:00pm - 4:00pm	ARM 1122	Lab
	This section is for KNES Majors only.		

KNES131V **Physical Education Activities: Coed; Jogging (BEGINNING)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Timothy Henkel	Seats (Total: 40)	
	MW 2:00pm - 4:00pm	ARM 1122	Lab
0002	Mike Hamberger	Seats (Total: 40)	
	TuTh 12:00pm - 2:00pm	ARM 1122	Lab

KNES134O **Physical Education Activities: Coed; Bowling (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Students must pay a $40 instructional materials fee. Bowling shoes are required (can be rented). Schedule adjustment is the first week of classes only.

0001	Timothy Henkel	Seats (Total: 40)	
	Meets August 28, 2017 - October 13, 2017		
	TuTh 8:00am - 10:00am	SSU B0106C	Lab
	This section is for KNES Majors only.		
0002	Timothy Henkel	Seats (Total: 40)	
	Meets October 16, 2017 - December 11, 2017		
	TuTh 8:00am - 10:00am	SSU B0106C	Lab
	This section is for KNES Majors only.		

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee directly to the golf course.

0001	Jeff Maynor	Seats (Total: 25)	
	Meets August 28, 2017 - October 13, 2017		
	MW 10:00am - 12:00pm	GLF 1102	Lab
	This section is for KNES Majors Only.		

KNES137O **Physical Education Activities: Coed; Golf (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40.00 instructional materials fee directly to golf course.

0001	Jeff Maynor	Seats (Total: 25)	
	Meets August 28, 2017 - October 13, 2017		
	MW 12:00pm - 2:00pm	GLF 1102	Lab

KNES140A **Physical Education Activities: Coed; General Gymnastics (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment is the first week of classes only. Attendance is required the first day of class. Meets the second seven weeks only. Students must pay a $40 instructional materials fee.

0001	Joshua Montfort	Seats (Total: 24)	
	Meets October 16, 2017 - December 11, 2017		
	MW 10:00am - 12:00pm	SPH 1120	Lab
	This section is for KNES Majors Only.		

KNES140V **Physical Education Activities: Coed; Tumbling and Balancing (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule adjustment is the first week of classes only. Attendance is required beginning the first day of class. Meets the first seven weeks only. Students must pay a $40 instructional materials fee.

0001	Joshua Montfort **Meets August 28, 2017 - October 13, 2017** MW 10:00am - 12:00pm	Seats (Total: 24) SPH 1120	 Lab

KNES144Q **Physical Education Activities: Coed; Martial Arts, Karate (Beginning)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 10:00am - 12:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) SPH 0107	 Lab

KNES144R **Physical Education Activities: Coed; Intermediate Karate**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 12:00pm - 2:00pm	Seats (Total: 32) SPH 0107	 Lab

KNES144T **Physical Education Activities: Coed; Self-Defense (Beginning)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 8:00am - 10:00am	Seats (Total: 35) SPH 0107	 Lab

KNES152N **Physical Education Activities: Coed; Soccer (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of classes only. Students are required to attend classes beginning first day of classes. Students must pay a $40 instructional materials fee.

0001	Andrew Ginsberg	Seats (Total: 24)	
	Meets August 28, 2017 - October 13, 2017		
	MW 12:00pm - 2:00pm	ARM 1122	Lab
	This section is for KNES Majors Only.		

KNES152O **Physical Education Activities: Coed; Soccer (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendence is required beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0001	Andrew Ginsberg	Seats (Total: 24)	
	Meets October 16, 2017 - December 11, 2017		
	MW 12:00pm - 2:00pm	ARM 1122	Lab
	This section is for KNES Majors only.		

KNES154N **Physical Education Activities: Coed; Swimming (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Beginning Swimming is strictly for Non-swimmers. Attendence is required on the first day of class. Students must pay a $40 instructional materials fee.

0001	Ronald Willoughby	Seats (Total: 22)	
	MW 12:00pm - 1:15pm	ERC B0120	Lab

KNES154O **Physical Education Activities: Coed; Swimming (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Natalie Taylor	Seats (Total: 22)	
	TuTh 1:00pm - 2:15pm	ERC B0120	Lab
	This section is for KNES Majors only.		

KNES154P **Physical Education Activities: Coed; Swimming (Advanced)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Ronald Willoughby	Seats (Total: 22)	
	MW 9:00am - 11:00am	ERC B0120	Lab

KNES154W **Physical Education Activities: Coed; Swimming/Lifeguard Training**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: Advanced swimming ability. Attendance on the first day of class is required of all students. Students must qualify to stay in class by passing a swim test on the first day of class. Students must pay a $40 instructional materials fee.

0001	Yvonne Taylor, Ronald Willoughby	Seats (Total: 22)	
	MW 10:00am - 12:00pm	ERC B0120	Lab

KNES155N **Physical Education Activities: Coed; Tennis (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Alexander Chyu	Seats (Total: 32)	
	Meets August 28, 2017 - October 13, 2017		
	MW 10:00am - 12:00pm	Location: TBA	Lab
	This section is for KNES Majors Only.		

0002	Alexander Chyu **Meets August 28, 2017 - October 13, 2017** MW 12:00pm - 2:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) Location: TBA	Lab
0003	Alexander Chyu **Meets August 28, 2017 - October 13, 2017** MW 2:00pm - 4:00pm	Seats (Total: 32) Location: TBA	Lab

KNES157N **Physical Education Activities: Coed; Weight Training (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Tori Thompson MW 10:00am - 11:15am	Seats (Total: 28) SPH 0103	Lab
0002	Mike Hamberger MW 1:00pm - 2:15pm	Seats (Total: 28) SPH 0103	Lab
0003	Tori Thompson MW 2:00pm - 3:15pm	Seats (Total: 28) SPH 0103	Lab
0004	Terrel Everette TuTh 9:30am - 10:45am	Seats (Total: 28) SPH 0103	Lab
FC01	Shaun Edmonds TuTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 28) SPH 0103	Lab

KNES157O **Physical Education Activities: Coed; Weight Training (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Terrel Everette MW 11:00am - 12:15pm *This section is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab
0002	Arielle Ocampo MW 12:00pm - 1:15pm *This section is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab
0003	Steven Kahl TuTh 12:00pm - 1:15pm *This sections is for KNES Majors only.*	Seats (Total: 28) SPH 0103	Lab

KNES160N **Physical Education Activities: Coed; Volleyball (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is first week of class only. Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Alexander Chyu **Meets October 16, 2017 - December 11, 2017** MW 10:00am - 12:00pm *This section is for KNES Majors Only.*	Seats (Total: 32) SPH 2101	Lab

KNES160O **Physical Education Activities: Coed; Volleyball (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of class only. All students are required to attend the first day of class. Students must pay a $40 instructional materials fee.

0001	Alexander Chyu **Meets October 16, 2017 - December 11, 2017** MW 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 32) SPH 2101	Lab

0002	Steven Kahl	Seats (Total: 32)	
	Meets October 16, 2017 - December 11, 2017		
	TuTh 2:00pm - 4:00pm	SPH 2101	Lab
	This section is for KNES Majors only.		

KNES161F **Physical Education Activities: Coed; Yoga for Fitness (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required. Students must pay a $40 instructional materials fee.

0001	Laura Rush	Seats (Total: 36)	
	TuTh 3:00pm - 4:15pm	SPH 0107	Lab
	This section is for KNES Majors only.		

KNES161T **Physical Education Activities: Coed; Yoga**

Credits: 1 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

KNES200U **Introduction to Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Kinesiology program; and freshman standing. Or must not be in Kinesiology program; and must have less than 60 credits. Credit only granted for: KNES200 or KNES289M.

An overview of kinesiology, the interdisciplinary study of physical activity. Examines human motor behavior and its cultural forms such as sport from the physiological, psychological, sociological, historical, philosophical, and biomechanical perspectives.

Contact department for information to register for this course.

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 Grading Method: Regular, Pass-Fail

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

KNES Majors Only.

0101	Andrea Romeo **Meets August 28, 2017 - October 14, 2017** M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0308 ONLINE
0102	Andrea Romeo **Meets October 15, 2017 - December 11, 2017** M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0308 ONLINE
0103	Steven Kahl **Meets August 28, 2017 - October 14, 2017** W 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0303 ONLINE
0104	Steven Kahl **Meets October 15, 2017 - December 11, 2017** W 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) SPH 0303 ONLINE
0105	Shaun Edmonds **Meets August 28, 2017 - October 14, 2017** M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE
0106	Shaun Edmonds **Meets October 15, 2017 - December 11, 2017** M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE

0109	Andrew Ginsberg **Meets August 28, 2017 - October 14, 2017** M 3:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE	
0110	Andrew Ginsberg **Meets October 15, 2017 - December 11, 2017** M 3:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 25) SPH 0307 ONLINE	

KNES214 **Science and Methods of Personal Fitness Instruction**

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: KNES214 or KNES210 and KNES211, or KNES210 and KNES212, or KNES289N. Formerly: KNES210/KNES211, KNES210/KNES212, and KNES289N.

Basic concepts of human anatomy, exercise physiology, applied kinesiology, nutrition and the physiology of exercise training. Includes the CORE knowledge required for the American Council on Exercise (ACE) Personal Trainer certification.

0101	Rosemary Lindle Class time/details on ELMs M 8:00am - 10:00am	Seats (Total: 25) ONLINE SPH 0305	 Lab
0102	Rosemary Lindle Class time/details on ELMs W 8:00am - 10:00am	Seats (Total: 25) ONLINE SPH 0303	 Lab

KNES260 **Science of Physical Activity and Cardiovascular Health**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: LS General Education: DSNS

Course details (1) the public health importance of and the processes underlying cardiovascular disease, (2) the risk factors for cardiovascular disease and the methods whereby they were identified, and (3) the principles of the scientific evidence supporting the use of physical activity to prevent cardiovascular disease.

0101	James Hagberg MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) ATL 2324 SPH 0225	 Discussion

0103	James Hagberg MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) ATL 2324 SPH 0225	Discussion

KNES282 **Basic Care and Prevention of Athletic Injuries**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES282 or KNES381.

Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.

KNES Majors only.

0101	Joanne Klossner TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 40) SPH 0308

KNES287 **Sport and American Society**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: SB, D General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

0101	David Andrews MW 2:00pm - 2:50pm M 8:00am - 8:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion
0102	David Andrews MW 2:00pm - 2:50pm M 9:00am - 9:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion
0103	David Andrews MW 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 22) SPH 1312 SPH 0303	Discussion

0104	David Andrews MW 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
0105	David Andrews MW 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 22) SPH 1312 SPH 0305	Discussion
FC01	Andrew Grainger MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) SPH 1301	

KNES287U **Sport and American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

Contact department for information to register for this course.

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES289L **Topical Investigations; Golf for Business and Life**

Credits: 3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Students must pay a $50.00 Facility fee. This course gives students the oppurtunity to learn the basics of the golf swing, etiquette, and most importantly, how to use golf as a business tool regardless of their chosen careers. Kinesiology majors may use this course to fulfill 2 credits of physical activity at intermediate level.

0101	Jeff Maynor	Seats (Total: 24)
	TuTh 3:30pm - 5:30pm	SPH 0303

KNES289P **Topical Investigations; Mathematical and Physical Bases of Human Movement and Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Restricted to students in the Kinesiology major (code: 08351). All other students will require department permission. Knowledge in basic mathematics, physical laws, and statistics provide tools for kinesiologists and exercise scientists to quantify, analyze, and evaluate human movements for efficiency, effectiveness, and safety. This course is designed to provide students with basic knowledge in mathematics, physics, and statistics. Upon successful completion, this course is expected to better prepare students for the science Core courses required for Kinesiology majors (e.g., KNES300, KNES360, KNES370 and KNES385).

0101	Jae Kun Shim	Seats (Total: 30)
	F 11:00am - 1:30pm	ITV 1100

KNES289R **Topical Investigations; Hoop Dreams: Black Masculinity and Sport**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

0101	Samuel Clevenger	Seats (Total: 50)
	MW 4:00pm - 5:15pm	ATL 2428

KNES289W **Topical Investigations; The Cybernetic Human**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power,engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.

0101	Tim Kiemel MF 2:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 20) PHY 1412 SPH 0305	Discussion
0102	Tim Kiemel MF 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) PHY 1412 SPH 0303	Discussion
0103	Tim Kiemel MF 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) PHY 1412 SPH 0303	Discussion
0104	Tim Kiemel MF 2:00pm - 2:50pm W 2:00pm - 2:50pm	Seats (Total: 20) PHY 1412 SPH 0303	Discussion

KNES293 **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0103	Michael Friedman MW 10:00am - 10:50am M 2:00pm - 2:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0104	Michael Friedman MW 10:00am - 10:50am M 3:00pm - 3:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0105	Michael Friedman MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 22) SPH 1312 SPH 0303	Discussion

0107	Michael Friedman MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0108	Michael Friedman MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 22) SPH 1312 SPH 1302	Discussion
0109	Michael Friedman MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 22) SPH 1312 SPH 0303	Discussion
FC01	Samuel Clevenger TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) CHM 0119	

KNES293U **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Contact department for information to register for this course.

KNES300 **Biomechanics of Human Motion**

Credits: 4 | Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

Students must pay a $50 lab fee.

0101	Jae Kun Shim MW 3:00pm - 4:15pm Tu 8:00am - 10:00am	Seats (Total: 18) SPH 1312 SPH 0223	Lab

0102	Jae Kun Shim MW 3:00pm - 4:15pm Tu 10:00am - 12:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0103	Jae Kun Shim MW 3:00pm - 4:15pm Tu 12:00pm - 2:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0104	Jae Kun Shim MW 3:00pm - 4:15pm Tu 2:00pm - 4:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0105	Jae Kun Shim MW 3:00pm - 4:15pm Th 8:00am - 10:00am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0106	Jae Kun Shim MW 3:00pm - 4:15pm Th 10:00am - 12:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0107	Jae Kun Shim MW 3:00pm - 4:15pm Th 12:00pm - 2:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0108	Jae Kun Shim MW 3:00pm - 4:15pm Th 2:00pm - 4:00pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab

KNES300H **Biomechanics of Human Motion**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Jae Kun Shim	Seats (Total: 4)
	MW 3:00pm - 4:15pm Contact instructor or department for details.	SPH 1312

KNES332 **Exercise Testing and Prescription for the Fitness Professional**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman	Seats (Total: 25)
	WF 9:00am - 10:50am	SPH 0308

KNES332H **Exercise Testing and Prescription for the Fitness Professional**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman	Seats (Total: 2)
	WF 9:00am - 10:50am	SPH 0308

KNES333 **Motor Development and Fitness for Individuals with Disabilities**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in KNES287 and KNES370. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 45 credits.

Implications of Federal and State regulations for planning and implementing motor development and physical fitness programs for individuals with disabilities. Evaluation strategies for assessing motor performance and fitness levels in educational programs for these individuals.

Students are required to choose a placement for a service-learning experience involving direct work with children who have disabilities. Students may choose from a list of local schools (listed in the syllabus. that have special education programs; or they may complete this requirement at the Children's Developmental Clinic held on campus in the SPH (School of Public Health) building every Saturday 8:30am-12:30pm.

0101	Dennis Vacante Th 7:00pm - 9:30pm	Seats (Total: 32) SPH 0308

KNES335 **Swimming Pool Management**

Credits: 2 Grading Method: Regular, Pass-Fail

Analysis of the position of the swimming pool manager. The systematic treatment of swimming pool water; swimming pool first aid; and laws pertaining to swimming pool operation. Qualifies the student for a pool operator's license in most Maryland counties.

This class does NOT fulfill a KNES Options Requirement.

0101	Natalie Taylor TuTh 9:30am - 10:30am	Seats (Total: 35) ERC B0132

KNES350 **The Psychology of Sports**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 60) SPH 1301
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 90) ATL 2400

KNES350H **The Psychology of Sports**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm	Seats (Total: 3) SPH 1301	
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 3) SPH 1301	

KNES360 Physiology of Exercise

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Tu 8:00am - 10:00am *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0102	Marc Rogers MWF 12:00pm - 12:50pm Tu 10:00am - 12:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab
0103	Marc Rogers MWF 12:00pm - 12:50pm Tu 12:00pm - 2:00pm *Restricted to students in the Kinesiology major (code:08351).*	Seats (Total: 18) SPH 1312 SPH 0225	Lab

0104	Marc Rogers	Seats (Total: 18)	
	MWF 12:00pm - 12:50pm Tu 2:00pm - 4:00pm	SPH 1312 SPH 0225	Lab
	Restricted to students in the Kinesiology major (code:08351).		
0105	Marc Rogers	Seats (Total: 18)	
	MWF 12:00pm - 12:50pm Th 8:00am - 10:00am	SPH 1312 SPH 0225	Lab
0106	Marc Rogers	Seats (Total: 18)	
	MWF 12:00pm - 12:50pm Th 10:00am - 12:00pm	SPH 1312 SPH 0225	Lab
	Restricted to students in the Kinesiology major (code:08351).		
0107	Marc Rogers	Seats (Total: 18)	
	MWF 12:00pm - 12:50pm Th 12:00pm - 2:00pm	SPH 1312 SPH 0225	Lab
	Restricted to students in the Kinesiology major (code:08351).		
0108	Marc Rogers	Seats (Total: 18)	
	MWF 12:00pm - 12:50pm Th 2:00pm - 4:00pm	SPH 1312 SPH 0225	Lab
	Restricted to students in the Kinesiology major (code:08351).		
0201	Kathleen Dondero	Seats (Total: 18)	
	TuTh 4:00pm - 5:30pm M 2:00pm - 4:00pm	SHM 2102 SPH 0225	Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		
0202	Kathleen Dondero	Seats (Total: 18)	
	TuTh 4:00pm - 5:30pm W 2:00pm - 4:00pm	SHM 2102 SPH 0225	Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		
0203	Kathleen Dondero	Seats (Total: 18)	
	TuTh 4:00pm - 5:30pm M 12:00pm - 2:00pm	SHM 2102 SPH 0225	Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		

0204	Kathleen Dondero TuTh 4:00pm - 5:30pm W 12:00pm - 2:00pm	Seats (Total: 18) SHM 2102 SPH 0225	 Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		
0205	Kathleen Dondero TuTh 4:00pm - 5:30pm F 10:00am - 12:00pm	Seats (Total: 18) SHM 2102 SPH 0225	 Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		
0206	Kathleen Dondero TuTh 4:00pm - 5:30pm F 12:00pm - 2:00pm	Seats (Total: 18) SHM 2102 SPH 0225	 Lab
	Restricted to College Park Students in the Public Health Science major (code:12140).		
SG91	Rian Landers-Ramos M 5:30pm - 8:00pm Th 9:00am - 11:00am	Seats (Total: 15) BLD3 3220 BLD1 203	 Lab
	Restricted to Shady Grove Students in the Public Health Science major (code:12140).		
SG92	Rian Landers-Ramos M 5:30pm - 8:00pm Th 11:00am - 1:00pm	Seats (Total: 15) BLD3 3220 BLD1 203	 Lab
	Restricted to Shady Grove Students in the Public Health Science major (code:12140).		

KNES360H **Physiology of Exercise**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 4) SPH 1312	

KNES370 **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

BL01	Jane Clark MW 1:00pm - 1:50pm M 9:00am - 9:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
BL02	Jane Clark MW 1:00pm - 1:50pm M 10:00am - 10:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
BL03	Jane Clark MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
BL04	Jane Clark MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
BL09	Jane Clark MW 1:00pm - 1:50pm W 8:00am - 8:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab

KNES370H **Motor Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

BL01	Jane Clark MW 1:00pm - 1:50pm TBA	Seats (Total: 2) SPH 1312 SPH 0223	 Lab

KNES370U **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

Blended Learning courses combine face-to-face and online interactions.

Contact department for information to register for this course.

KNES385 **Motor Control and Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

0101	Rodolphe Gentili MW 11:00am - 11:50am F 8:00am - 8:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0102	Rodolphe Gentili MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0103	Rodolphe Gentili MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab
0104	Rodolphe Gentili MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 18) SPH 1312 SPH 0223	 Lab

0105	Rodolphe Gentili MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0106	Rodolphe Gentili MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0108	Rodolphe Gentili MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0109	Rodolphe Gentili MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab
0110	Rodolphe Gentili MW 11:00am - 11:50am M 3:00pm - 3:50pm	Seats (Total: 18) SPH 1312 SPH 0223	Lab

KNES385H **Motor Control and Learning**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Rodolphe Gentili MW 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 8) SPH 1312	

KNES386 **Experiential Learning**

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed three KNES core classes. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.

Click here for more course information.

0101	Marvin Scott	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	SPH 0303

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department. This class does NOT fulfill a KNES Options Requirement.

Contact department for information to register for this course.

KNES389E **Topical Investigations; Children's Development Clinic**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

A service/learning course designed for students, teachers and individuals interested in working with children who have special needs. Students will work one-on-one with an assigned child in the areas of motor development, reading, language, and social skills. Students will be required to complete fingerprinting and background checks (at no cost to the students). This class does NOT fulfill a KNES Options Requirement.

0101	Dennis Vacante	Seats (Total: 30)
	Sa 8:30am - 12:30pm	SPH 2101

KNES389K **Topical Investigations; Kinesiology Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES400 **The Foundations of Public Health in Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 18) PHY 1410 SPH 1302	Discussion
0102	Shannon Jette MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 18) PHY 1410 SPH 0305	Discussion
0103	Shannon Jette MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 18) PHY 1410 SPH 0305	Discussion
0104	Shannon Jette MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion
0105	Shannon Jette MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 18) PHY 1410 SPH 0301	Discussion
0106	Shannon Jette MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion
0107	Shannon Jette MW 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 18) PHY 1410 SPH 0303	Discussion

0108	Shannon Jette	Seats (Total: 18)	
	MW 11:00am - 11:50am F 3:00pm - 3:50pm	PHY 1410 SPH 0303	Discussion

KNES400H **The Foundations of Public Health in Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette, Katelyn Esmonde	Seats (Total: 5)
	MW 11:00am - 11:50am Contact instructor or department for details.	PHY 1410

KNES402 **Biomechanics of Sport**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller	Seats (Total: 32)
	MWF 12:00pm - 12:50pm	SPH 0308

KNES402H **Biomechanics of Sport**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller	Seats (Total: 3)
	MWF 12:00pm - 12:50pm	SPH 0308

KNES440 **Psychology of Athletic Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

0101	Seppo Iso-Ahola	Seats (Total: 30)
	M 4:00pm - 6:35pm	SPH 1302

KNES440H **Psychology of Athletic Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Seppo Iso-Ahola	Seats (Total: 3)
	M 4:00pm - 6:35pm	SPH 1302

KNES451 **Children and Sport: A Psychosocial Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown TuTh 11:00am - 12:15pm	Seats (Total: 31) SPH 0305

KNES451H **Children and Sport: A Psychosocial Perspective**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown TuTh 11:00am - 12:15pm	Seats (Total: 1) SPH 0305

KNES457 **Managing Youth Programs: Educational, Fitness and Sport**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES370 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES457 or KNES498Y.

An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation's youth.

0101	Jay Goldstein TuTh 11:00am - 12:15pm	Seats (Total: 35) SPH 0308

KNES460 **Physiology of Aging and the Impact of Physical Activity**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers TuTh 12:30pm - 1:45pm	Seats (Total: 32) SPH 0305

KNES460H **Physiology of Aging and the Impact of Physical Activity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers	Seats (Total: 2)
	TuTh 12:30pm - 1:45pm	SPH 0305

KNES461 **Exercise and Body Composition**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

0101	Ben Hurley	Seats (Total: 31)
	TuTh 9:30am - 10:45am	SPH 0305

KNES461H **Exercise and Body Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Ben Hurley	Seats (Total: 3)
	TuTh 9:30am - 10:45am	SPH 0305

KNES476 **Honors Thesis Proposal**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: KNES478. Restriction: Must be a KNES Honors student; and senior standing. Credit only granted for: KNES476 or KNES498R.

Development of honors thesis proposal based on preliminary research and literature review. Presentation of formal proposal to the thesis committee and fellow honors students.

0101	J Carson Smith	Seats (Total: 10)
	F 10:00am - 10:50am	SPH 0301
	Contact instructor or department for details.	

KNES478 **Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Guided discussion of research topics of current interest.

Continuing KNES Honors Students must enroll in KNES478 every semester they are in the program.

0101	J Carson Smith	Seats (Total: 20)
	F 11:00am - 11:50am	SPH 0301

KNES484 **Sporting Hollywood**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES293 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES484 and KNES498N.

Popular representations of sport within the film media related to wider social discourses on bodies and the politics of various categories of subjectivity (gender, sexual, racial, class and national).

0101	Michael Friedman	Seats (Total: 35)
	M 4:00pm - 6:30pm	SPH 0302

KNES485 **Sport and Globalization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Prerequisite: KNES287. Restriction: Junior standing or higher.

Examination of sport culture from a global perspective; focuses on theorizing the similarities and differences between various national sporting cultures.

0101	Andrew Grainger Class time/details on ELMs W 1:00pm - 1:50pm	Seats (Total: 35) ONLINE SPH 0302

KNES497 **Kinesiology Senior Seminar**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and must have completed 6 KNES core courses and 2 KNES option courses, all with a C- or higher; and must have completed STAT100 with a C- or better. Restriction: Senior standing or higher; and must be in Kinesiology program; and permission of department.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

Click here for more information.

0102	Andrew Grainger M 9:00am - 11:30am *Qualitative Research for Sport and Physical Culture.*	Seats (Total: 20) SPH 0301
0103	James Hagberg Th 8:00am - 10:30am *Physical Activity and the Obesity and Diabetes Epidemic*	Seats (Total: 20) SPH 0307
0106	Joanne Klossner TuTh 12:30pm - 1:45pm *Hot Topics in Sports Medicine.*	Seats (Total: 20) SPH 0307
0111	Tim Kiemel W 4:00pm - 6:30pm *Normal and Impaired Sensorimotor Control: Standing Balance, Walking, and Other Activities of Daily Living.*	Seats (Total: 20) SPH 0307
0113	Rodolphe Gentili W 2:00pm - 4:30pm *Rehabilitation and Motor Control.*	Seats (Total: 20) CCC 1115

KNES498 **Special Topics in Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

This class does NOT fulfill a KNES Options Requirement.

Contact department for information to register for this course.

KNES498C **Special Topics in Kinesiology; Exercise and Brain Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Examines the evidence for exercise to affect brain function and brain health in children, in adults, and in old age. Covers the adaptations toacute and chronic exercise within brain networks related to emotion, stress reactivity, memory, and executive function, and the effectiveness of physical activity and exercise as treatments for depression, anxiety disorders, and cognitive impairment.Prerequisite: KNES350.

0101	J Carson Smith	Seats (Total: 31)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES498T **Special Topics in Kinesiology; Principles and Applications of Exercise Rehabilitation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisites: BSCI202 and KNES300/KNES300H.

0101	Larry Plotkin	Seats (Total: 34)
	TuTh 8:00am - 9:15am	SPH 0305

KNES498W **Special Topics in Kinesiology; Prosthetics for Limb Amputations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisite: KNES300. Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.

0101	Douglas Collier	Seats (Total: 34)
	Tu 12:30pm - 3:00pm	PLS 1119

KNES600 **Kinesiology in Public Health**

Credits: 3 Grading Method: Regular, Audit

A broad introduction to public health within the context of the discipline of kinesiology, focusing on furthering the understanding of the ways kinesiology contributes toward achieving the goals of public health.

0101	Jennifer Roberts	Seats (Total: 15)
	Tu 4:00pm - 6:45pm	SPH 2334

KNES602 **Physical Activity Program Planning and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Recommended: KNES600.

An in-depth analysis of the planning, implementation, and evaluation of physical activity interventions and programs intended to achieve physical activity and public health goals.

0101	Brit Saksvig	Seats (Total: 3)
	W 1:00pm - 3:30pm	SPH 2334

KNES609 **Research Issues in Kinesiology**

(Perm req)

Credits: 1 Grading Method: Regular

Issues, methodologies, and critical analyses of current research in Kinesiology.

Contact department for information to register for this course.

KNES613 **Theories Physical Culture**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: KNES613 or KNES689I. Formerly: KNES689I.

Examines and assesses numerous social and cultural theories as frameworks for critically interpreting the varied institutions, ideologies, and embodiments of physical culture.

0101	David Andrews	Seats (Total: 15)
	M 4:00pm - 6:30pm	SPH 2334

KNES618 **Current Readings in Exercise and Applied Physiology**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations of contemporary literature in the areas of genetics, exercise science, fitness and health. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	James Hagberg	Seats (Total: 12)
	F 1:00pm - 1:50pm	SPH 2334

KNES660 **Psychology of Athletic Performances**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES350. Credit only granted for: KNES660 or KNES689Z. Formerly: KNES689Z.

Psychological factors, mechanisms, and processes in athletic performance. The basic approach is social psychological, according to which the focus is on individual performance in the interpersonal athletic context. Intrapersonal and interpersonal factors and their effects on athletic performance. Psychology of peak performance, choking, and errors of mental control. Analysis of the general principles and types of mental training.

0101	Seppo Iso-Ahola	Seats (Total: 30)
	M 4:00pm - 6:35pm	SPH 1302

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES689A **Special Problems in Kinesiology; Assessing Learning in Physical Education**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

A study of the principles and techniques of educational measurement used to evaluate student learning in the cognitive, psychomotor and affective domains within the context of teaching effectiveness. Students will develop research proposals for implementation during the second half of their teaching internship.

Contact department for information to register for this course.

KNES689P **Special Problems in Kinesiology; Mechanical Analysis of Human Movement**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	Ross Miller	Seats (Total: 10)
	Th 4:00pm - 6:30pm	ATL 0201

KNES689T **Special Problems in Kinesiology; Teaching Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Outreach Secondary MCERT- KNES. Departmental permission required. Students are required to pay a course fee; refer to program materials for details.

Contact department for information to register for this course.

KNES689X **Special Problems in Kinesiology; Exercise and Brain Health**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	J Carson Smith	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES692 **Cardiovascular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES360.

A comprehensive consideration of the various cardiovascular factors affecting human physical performance. Emphasis on the regulation of cardiovascular functions during physical activity. Energy liberation and transfer, circulation, respiration, temperature regulation, physiology of work at altitudes, aerobic endurance training, and exercise, health and aging.

0101	Sushant Ranadive	Seats (Total: 15)
	W 4:00pm - 6:30pm	SPH 0225

KNES785 **Internship in Physical Activity and Public Health**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EPIB610, EPIB650, HLSA601, HLTH665, KNES600, KNES601, and MIEH600. Recommended: KNES602. Credit only granted for: KNES778 or KNES785.

The internship is a time-limited, supervised period of public/community health activities carried out in a health or allied health organization involved with physical activity. Students gain practical experience in areas such as program planning and implementation, program evaluation, public policy analysis, research, and management.

0101	Jennifer Roberts	Seats (Total: 3)
	Contact instructor or department for details.	

KNES789N **Advanced Projects in Kinesiology; Physical Cultural Studies of Technoscience**

Credits: 3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

0101	Shannon Jette	Seats (Total: 15)
	W 4:00pm - 6:30pm	SPH 2334

KNES789P **Advanced Projects in Kinesiology; Contemporary Neuromechanics**

Credits: 3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

0101	Jae Kun Shim	Seats (Total: 15)
	W 4:00pm - 6:30pm	SPH 0223

KNES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

KNES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

KORA Korean Fall 2017

KORA101 **Elementary Korean I**

Credits: 3 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score; and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a non-Heritage student with no background in Korean.

Introduction to the Korean language. Primary emphasis on oral skills, but Hangul, the Korean alphabet, will also be introduced.

0101	Younghi Ramsey MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 2206
0201	Younghi Ramsey MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 2125
0301	Seong Minne Koh MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 3122

KORA201 **Intermediate Korean I**

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: KORA102; or permission of instructor.

An intermediate-level course designed for non-Heritage students. It begins the second year of instruction in the University's two-track Korean Program.

0101	Younghi Ramsey MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 0125
0201	Younghi Ramsey MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 2207

KORA398E **Special Topics in Korean Studies; The Koreas: Korean War to the 21st Century**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.

This is a CIC courseshare course. The instructor, Professor Charles Kim, is at the University of Wisconsin, Madison, but UMD students enroll and receive it at UMD. Also offered as HIST329Q. Credit granted for KORA398E or HIST329Q.

0101	Instructor: TBA TuTh 10:30am - 11:45am	Seats (Total: 15) JMZ 1123
	Ever since the establishment of two Korean nation-states after the end of World War II, North Korea and South Korea have been part and parcel of key trends and phenomena in East Asia and the world. As such, the post-1945 history of Korea has been shot through with transformations, dynamism, conflicts , triumphs, and the unexpected. This course explores the society, culture , and politics of the two Koreas. Key topics include national division and the Korean War, the Cold War, memory, and everyday life.	

KORA398F **Special Topics in Korean Studies; Film Culture in Korea**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.

This is a CIC courseshare course. The instructor, Professor Se-Mi Oh, is at the University of Michigan, but UMD students enroll and receive it at UMD.

0101	Instructor: TBA	Seats (Total: 12)
	Tu 2:30pm - 4:00pm	JMZ 1103
	Th 2:30pm - 4:00pm	JMZ 2125

Survey of the films produced during the last hundred years in South Korea. The course will examine representative films, directors, and genres from the inception of the industry in the colonial era through the recent years. While working through different genres of historical drama, melodrama, literary adaptation, horror, mystery, and monster films, we will discuss topics pertaining to family,sexuality, gender, cultural tradition, national identity, social movement, and urbanization.

KORA499 **Independent Study Korean**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

LARC Landscape Architecture Fall 2017

LARC141 **Design Fundamentals Studio**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: LARC140. Recommended: Concurrently enrolled in LARC263. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program.

Fundamentals of basic design focusing on creative problem solving associated with landscape architecture.

0101	Kelly Cook	Seats (Total: 15)	
	MW 2:00pm - 3:15pm	PLS 2152	
	MW 3:30pm - 4:50pm	PLS 2152	Lab

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

0101	Dennis Nola MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 18) PLS 1130 PLS 1164	 Discussion
0102	Dennis Nola MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 18) PLS 1130 PLS 1113	 Discussion
0103	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 18) PLS 1130 PLS 1158	 Discussion
0104	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 18) PLS 1130 PLS 1119	 Discussion
FC01	Allison Tjaden MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) PLS 1115	

LARC152 **Greening Cities: Who Wins, Who Loses, and Who Cares?**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit only granted for: LARC152 or PLSC289I. Formerly: PLSC289I.

"Greening Cities" can have many interpretations: improving or adding urban economic activity, realizing energy efficiency, greening urban transport systems, etc. An important component of livable and sustainable cities and metropolitan ecosystems are the plants and landscapes that are inhabited by plants. With the majority of humans now living in cities, a survey of urban ecosystem principles and an examination of design and planning strategies for plant and landscape resources in urban and metropolitan regions is critical.

0101	David Myers MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 20) PLS 1140 PLS 1168	Discussion
0102	David Myers MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) PLS 1140 PLS 1168	Discussion
0103	David Myers MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) PLS 1140 PLS 1158	Discussion
0104	David Myers MW 12:00pm - 12:50pm M 4:00pm - 4:50pm	Seats (Total: 20) PLS 1140 PLS 1158	Discussion

LARC160 **Introduction to Landscape Architecture**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences.

0101	Christopher Ellis MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1113	Discussion
0102	Christopher Ellis MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1113	Discussion
0103	Christopher Ellis MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1168	Discussion
0104	Christopher Ellis MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1176	Discussion

0105	Christopher Ellis MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1113	Discussion
0106	Christopher Ellis MW 12:00pm - 12:50pm W 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1113	Discussion
0107	Christopher Ellis MW 12:00pm - 12:50pm M 4:00pm - 4:50pm	Seats (Total: 18) MMH 1400 PLS 1113	Discussion
0108	Christopher Ellis MW 12:00pm - 12:50pm M 5:00pm - 5:50pm	Seats (Total: 18) MMH 1400 PLS 1113	Discussion
FC01	Colleen Vacelet MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) PLS 1130	

LARC265 **Site Analysis and Ecological Principles**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC141. Corequisite: LARC240 and LARC221. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC265 or ARCH460.

Principles and methods of site analysis with an emphasis on the application of ecological principles in landscape architecture, architecture and planning.

0101	Thomas Mateya TuTh 9:30am - 10:45am	Seats (Total: 20) PLS 1158

LARC320 **Principles of Site Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC221. Corequisite: LARC340. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

The study and application of landscape construction principles as applied to grading, drainage, site layout, storm water management, and vehicular and pedestrian circulation.

0101	Joseph Burkhardt	Seats (Total: 20)	
	Th 8:00am - 10:45am	PLS 2150	
	Tu 9:30am - 10:45am	PLS 2150	Lab

LARC340 **Site Planning and Design Studio**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC221; and LARC240; and LARC265. Corequisite: LARC320. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

An examination of the influence of landscape character and site features (natural and cultural) on landscape architecture, architecture and planning through application in the studio setting.

0101	Dennis Nola	Seats (Total: 17)	
	M 1:00pm - 1:50pm	PLS 2150	
	W 2:00pm - 2:50pm	PLS 2150	
	M 2:00pm - 4:50pm	PLS 2150	Lab
	W 3:00pm - 5:50pm	PLS 2150	Lab

LARC389 **Internship in Landscape Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

A supervised internship where students earn credit for work experience related to their career goals. Each student must keep a work log, work on a special project, and produce a report related to this project. An evaluation from the external supervisor of the project is required. Participation requires application to the internship advisor in the preceding semester.

0101	Mark Carroll	Seats (Total: 15)	
	W 9:00am - 9:50am	PLS 1119	
	Contact instructor or department for details.		

LARC420 **Professional Practice**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC321. Restriction: Must be in Landscape Architecture program.

An introduction to and comparative study of the professional concerns of design firms. Focus on planning, legal, ethical, marketing and management considerations of interdisciplinary practices.

0101	Jennifer Low	Seats (Total: 30)	
	Tu 9:00am - 11:50am	PLS 1117	Lab

LARC440 **Urban Studio Design**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC321; and LARC340; and LARC341. Restriction: Must be in Landscape Architecture program.

The landscape architect's role within the interdisciplinary urban design process, focusing on urban site design issues. Pedestrian friendly site design and the future of sustainable development will be studied.

0101	Jack Sullivan	Seats (Total: 17)	
	MW 1:00pm - 1:50pm	PLS 2148	
	MW 2:00pm - 4:50pm	PLS 2148	Lab

LARC452 **Green Infrastructure and Community Greening**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100 or PLSC101; or permission of instructor. Restriction: Junior standing or higher. Credit only granted for: LARC489G or LARC452. Formerly: LARC489G.

A critical look and exploration of green infrastructure (GI) elements in the built environment in contributing to ecosystems services and the sustainability of the built environment. The course explores the science, issues, challenges, and the policy, planning and design solutions offered by green infrastructure.

0101	David Myers	Seats (Total: 10)	
	W 10:00am - 10:50am	PLS 1115	
	F 10:00am - 11:50am	PLS 1115	
	for LARC majors only.		
0102	David Myers	Seats (Total: 10)	
	W 10:00am - 10:50am	PLS 1115	
	F 10:00am - 11:50am	PLS 1115	

LARC470 **Landscape Architecture Seminar**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC321; and LARC341. Corequisite: LARC440. Restriction: Senior standing; and must be in Landscape Architecture program.

A combination of self-directed study, seminar, and lecture formats. An introduction to aspects of research methods, critical analysis, and proposal writing with a focus on urban and community design.

0101	Kelly Cook	Seats (Total: 13)	
	M 9:00am - 11:50am	PLS 1162	

LARC489R **Special Topics in Landscape Architecture; Fundamental Graphics**

(Perm req)

Credits: 3 Grading Method: Regular

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Permission of AGNR-Plant Science & Landscape Architecture department; and must be in Landscape Architecture program. Exploration of fundamental graphics used in landscape architecture.

0101	Ann Anderson	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PLS 2152	
	TuTh 12:30pm - 1:45pm	PLS 2152	Lab

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular

Independent studies in landscape architecture including field, studio o library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC620 **Graphic Tools for Landscape Representation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: LARC640. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

This course integrates digital and analog methods of communication and provides an introduction to computer tools and techniques commonly used in landscape architecture practice. Non-drafting computer tools will be used to orient basic digital image capture, manipulation, and presentation formatting. Also includes techniques and application of various media for graphic communication associated with landscape architecture.

0101	Jack Sullivan	Seats (Total: 10)	
	TuTh 9:30am - 10:45am	PLS 1142	
	TuTh 11:00am - 12:15pm	PLS 1142	Lab

LARC640 **Graduate Studio I**

(Perm req)

Credits: 5

Grading Method: Regular, Audit

Corequisite: LARC620. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Principles and techniques of design as applied to shaping the landscape developing concepts in visual thinking, environmental awareness, and design intervention through studio exercises and projects.

0101	Byoung-Suk Kweon	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 1142	
	TuTh 2:00pm - 4:50pm	PLS 1142	Lab

LARC642 **Graduate Studio III**

(Perm req)

Credits: 5

Grading Method: Regular, Audit

Prerequisite: LARC641. Corequisite: LARC670. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

A focus on the interaction of landscape science (hydrology, geology, etc.) with the necessities and mechanisms of human settlements (transportation, economics, etc.) emphasizing innovative and forward thinking solutions to urbanization and ecological problems. It will apply this knowledge to landscape analysis, recreational planning and design, and community development, emphasizing resource management, spatial organization, landscape character, and the physical and social structure of community services. This course will be required for both Trach 1 and Track 2 students.

A Partnership for Action Learning in Sustainability (PALS) coure where students apply classroom learning to actual community needs.

0101	Christopher Ellis	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2154	
	TuTh 2:00pm - 4:50pm	PLS 2154	Lab

LARC670 **Landscape Architecture Theory and Criticism**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Review and analysis of the body of literature concerning landscape architecture and relationships between humans and both natural and designed environments. Topics may include: rationalism, ethics, aesthetics, social and economic values, postmodernism, feminist, multiculturalism, ecological determinism, preservation/conservation, and sustainability and ecological design. Each week students will lead a debate and discussion on a theoretical issue based on the assigned readings for that week.

0101	Kelly Cook	Seats (Total: 10)	
	M 9:00am - 11:50am	PLS 1162	

LARC699 **Independent Studies in Landscape and Architecture**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual Instruction course.

Contact department for information to register for this course.

LARC721 **Landscape Construction Methods and Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LARC720. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Basic methods of constructing landscapes and manipulating the appropriate plant and inorganic materials for the creation of ecologically sustainable environments for human use. An examination of the use, properties, and detailing of materials used in landscape construction.

0101	Matthew Sickle	Seats (Total: 10)	
	W 8:00am - 9:15am	PLS 2154	
	W 9:30am - 10:45am	PLS 2154	

LARC748 **Advanced Special Topics Studio**

Credits: 5 Grading Method: Regular, Audit

Advanced special topics comprehensive landscape architecture studio-exploration will focus on cultural, behavioral and ecological issues in the physical planning and design of urban landscapes.

0101	Victoria Chanse	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2156	
	TuTh 2:00pm - 4:50pm	PLS 2156	Lab

LARC799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LASC Certificate in Latin American Studies Fall 2017

LASC234 Issues in Latin American Studies I

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson MW 11:00am - 12:15pm	Seats (Total: 30) TWS 1106
0201	Britta Anderson TuTh 12:30pm - 1:45pm	Seats (Total: 35) CCC 1111

LASC234H Issues in Latin American Studies I

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson MW 11:00am - 12:15pm	Seats (Total: 5) TWS 1106

LASC250 History of Colonial Latin America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Also offered as: HIST250. Credit only granted for: LASC250 or HIST250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 1117

LASC286 **Internship in Latin American/Caribbean Studies**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Prerequisite: LASC234, SPAN234, LASC235, SPAN235, LASC250, HIST250, LASC251, or HIST251; and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and cannot have more than 60 credits total. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director and students must secure an appropriate faculty mentor to supervise the internship course.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of how the experience ties into their major field of study.

Contact department for information to register for this course.

LASC348E **Special Topics in Latin American Studies; Caribbean Literature in English**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Topics to be announced when offered.

Also offered as ENGL362. Credit granted for ENGL362 or LASC348E.

0201	Corey Lamont	Seats (Total: 25)
	TuTh 9:30am - 10:45am	TWS 1107

LASC348I **Special Topics in Latin American Studies; Race in Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

Also offered as HIST329I. Credit granted for HIST329I or LASC348I. Explores race relations in Latin America from the colonial era through the present. Covers indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time; systems of racial categorization; race-mixing (or mestizaje); slavery and emancipation; labor markets; access to property; local and regional identities; gender and sexuality; science and the arts; nationalism; and transnationalism.

0101	Karin Rosemblatt	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0103

LASC448J **Special Topics in Latin American Studies; The Aztecs: Human Sacrifice and Conquest**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as HIST429N, PHIL428N, and RELS419J. Credit granted for HIST429N LASC448J, PHIL428N, or RELS419J. We examine the philosophical worldview and daily life of the Aztecs as as well as arguments concerning the legitimacy of the Conquest.

0101	James Maffie	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	KEY 1117

LASC458 **Senior Capstone Course in Latin American Studies**

Credits: 3 Grading Method: Regular

Capstone course for advanced students in the Latin American Studies Certificate Program or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Laurie Frederik	Seats (Total: 12)
	TuTh 9:30am - 10:45am	HJP 4120

LASC486 **Internship in Latin American/Caribbean Studies**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Prerequisite: Student must have completed at least two LASC courses, one of which must be a required/core course (LASC/SPAN234, LASC/SPAN235, LASC/HIST250, or LASC/HIST251); and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director, and students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of their experience, including critical analysis of the institutional relevance to their major field of study and to Latin American Studies. Students will also be asked to give an oral presentation.

Contact department for information to register for this course.

LATN Latin Fall 2017

LATN120 **Intensive Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Classics department. Restriction: Must not have completed LATN102.

Elements of Latin grammar and vocabulary; elementary reading. The first year's study of Latin compressed into a single semester.

0101	Eugenia Lao	Seats (Total: 20)
	MWF 10:00am - 10:50am	HBK 0125
	W 9:00am - 9:50am	HBK 0125

LATN201 **Intermediate Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: Must have completed LATN102 at University of Maryland, College Park; or permission of ARHU-Classics department. Formerly: LATN203.

0101	Eugenia Lao	Seats (Total: 10)
	MWF 12:00pm - 12:50pm	MMH 1218
	F 1:00pm - 1:50pm	MMH 1218

LATN351 **Horace and Catullus**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LATN201; or students who have taken courses with comparable content may contact the department.

Readings are in Latin.

0101	Gregory Bucher MWF 12:00pm - 12:50pm	Seats (Total: 20) WDS 1131

LATN488C **Latin Readings; Julius Caesar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Eric Adler M 6:15pm - 8:45pm	Seats (Total: 10) KEY 0123

LATN488M **Latin Readings; Medieval Latin**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Carin Ruff W 5:00pm - 7:40pm	Seats (Total: 10) KEY 0123

LATN499 **Independent Study in Latin Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

LATN631 **Medieval Latin**

Credits: 3 Grading Method: Regular, Audit

An examination of literary documentary texts in Latin from the end of the Roman Empire to the Renaissance.

0101	Carin Ruff W 5:00pm - 7:40pm	Seats (Total: 10) KEY 0123

LATN688C **Special Topics in Latin Literature; Julius Caesar**

Credits: 3 Grading Method: Regular, Audit

0101	Eric Adler M 6:15pm - 8:45pm	Seats (Total: 10) KEY 0123

LATN699 **Independent Studies in Latin Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

LATN799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

LBSC Library Science Fall 2017

LBSC602 **Serving Information Needs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

0101	Beth St Jean Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 0115
ML01	Brian Real Class time/details on ELMs	Seats (Total: 30) ONLINE

LBSC631 **Achieving Organizational Excellence**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

0201	Stephanie Tuszynski Th 6:00pm - 8:45pm	Seats (Total: 30) HBK 1108
ML01	Bruce Dearstyne Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC645 **Literature and Materials for Children**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Survey of literature and other materials for children and youth. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

CT01	Annette Goldsmith Class time/details on ELMs	Seats (Total: 15) ONLINE
ML01	Edith Ching Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC671 **Creating Information Infrastructures**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Foundations of acquiring and managing collections, information structures, indexing and discovery systems needed by information professionals. An introduction to the theoretical concepts, trends, systems, and technologies central to the information field.

0101	Philip Piety M 6:00pm - 8:45pm	Seats (Total: 30) ESJ 1309
ML01	Margaret Dull Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC703 **Field Study in Archives and Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC631, and LBSC671; and must have completed 9 additional credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in archives or digital curation programs in organizations and institutions.

0101	Kenneth Heger	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0103

LBSC707 **Field Study in Information Service**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.

Supervised internship experience in a library, archive, museum, or other information organization.

ML01	Rocco Debonis	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Signed independent study form must be presented to CLIS Admissions Office.

Contact department for information to register for this course.

LBSC724 **Public Library Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Organization, support, and service patterns of public libraries. The public library in national, state, and local contexts.

ML01	Brian Real	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC731 **Special Collections**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Management of special collections, whose holdings may include manuscripts (particularly personal papers), non-textual materials, graphical materials, and rare books, with analysis of the custodial and management functions associated with special collections.

0101	John Buchtel	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0109

LBSC741 **Seminar in School Library Administration**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST650; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Development, management, and evaluation of school library programs at all levels.

ML01	Renee Hill	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC789A **Special Topics in Contemporary Archives; Seminar in Modern Archives**

Credits: 3 Grading Method: Regular, Audit

Issues in administering contemporary archives and records management programs. Topics are selected by individual instructors. For course content information please contact the College of Information Studies.

0101	Michael Kurtz, Richard Marciano	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

LBSC791 **Designing Principled Inquiry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 9 credits of coursework applied to the MLIS degree. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

0101	Paul Jaeger W 6:00pm - 8:45pm	Seats (Total: 30) HBK 2119

LBSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Intensive research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

LGBT Lesbian Gay Bisexual Transgender Studies Fall 2017

LGBT200 **Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

Credit only granted for: LGBT200.

An interdisciplinary study of the historical and social contexts of personal, cultural and political aspects of LGBT life. Sources from a variety of fields, such as anthropology, history, psychology, sociology, and women's studies, focusing on writings by and about LGBT people.

0101	Ivan Ramos TuTh 9:30am - 10:45am	Seats (Total: 45) SQH 1117
0201	Ivan Ramos TuTh 2:00pm - 3:15pm	Seats (Total: 45) CCC 1111
0301	Anna Storti MWF 10:00am - 10:50am	Seats (Total: 25) HBK 1108

LGBT265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Restriction: Must not have completed ENGL265. Also offered as: ENGL265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	Elizabeth McClure TuTh 12:30pm - 1:45pm	Seats (Total: 30) TWS 0205
0201	John Macintosh TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0205

LGBT350 **Lesbian, Gay, Bisexual, and Transgender People and Communication**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: LGBT200; and permission of LGBT Studies Program.

Study of differences, stereotypes, and values distinguishing LGBT people and of effective means of communicating such differences to non-LGBT people. Emphasis on contemporary LGBT life and on the development of didactic skills. Preparation and presentation of forums on LGBT people; facilitation of workshops in various outreach locations (residence halls, Greek system, classes).

0101	Luke Jensen W 3:30pm - 5:10pm Contact instructor or department for details.	Seats (Total: 12) WDS 1131

LGBT386 **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LGBT448C **Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Sex and the City**

Credits: 3 | Grading Method: Regular , D | General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Also offered as LGBT448C. Credit granted for AMST498V or LGBT448C. This class adopts an interdisciplinary and intersectional approach to the study of sex and the city. Although the class focuses on the experiences of lesbian, gay, bisexual, and transgender (LGBT) people, the class also considers marginalized sexualities more generally, including a range of identities and practices that do not fall into dominant definitions of heterosexuality. Central throughout is an 0nalysis of how the politics of sexuality is shaped by race, gender, and and the economy. Units include Progressive-era city reforms, sub-cultural studies of the Chicago School, the history of pre-Stonewall sexual minority communities, theories of sexual migration, sex tourism, the Moynihan Report, LGBT and queer social movements, gender profiling, public sex, sexual labor, gentrification, street safety, and the representation of the city in cultural production.

0101	Christina Hanhardt	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	HBK 1112	

LGBT499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed research and analysis in LGBT Studies on a topic selected by the student.

Contact department for information to register for this course.

LING Linguistics Fall 2017

LING200 **Introductory Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

0101	Margaret Antonisse	Seats (Total: 30)	
	MW 1:00pm - 1:50pm	MMH 1400	
	F 10:00am - 10:50am	MMH 1304	Discussion

0102	Margaret Antonisse MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 30) MMH 1400 MMH 1304	Discussion
0103	Margaret Antonisse MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 30) MMH 1400 MMH 1304	Discussion
0104	Margaret Antonisse MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 30) MMH 1400 MMH 1304	Discussion

LING240 **Language and Mind**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Additional information: Required for Linguistics majors and recommended for students in related fields.

The study of language as a cognitive phenomenon. Focus on mastering the concepts and technical skills required for further courses in linguistics. Ways of representing people's knowledge of their native language, ways in which that knowledge is attained naturally by children, and how it is used in speaking and listening. Additional topics may include: animal communication, language and the brain, language and thought.

0101	Tonia Bleam MWF 11:00am - 11:50am	Seats (Total: 50) SYM 0200

LING248 **Introduction to Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 | Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.

0101	Jeffrey Lidz TBA	Seats (Total: 15) MMH 1304

LING311 **Syntax I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Basic concepts, analytical techniques of generative syntax, relation to empirical limits imposed by viewing grammars as representations of a component of human mind. Aspects of current theories.

0101	Tonia Bleam	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MMH 1304

LING320 **Phonetics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: Minimum grade of C- in LING200. Recommended: LING240. Additional information: This course counts as a core course for the linguistics major. Only one of Ling320 or HESP403 can be used to count towards the Linguistics major.

Representations and models of acoustic and articulatory phonetics. Develops concepts and skills for description, measurement and scientific analysis of the sound systems of human languages, including various varieties of English.

0101	William Idsardi	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	KEY 0100

LING321 **Phonology I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Properties of sound systems of human languages, basic concepts and analytical techniques of generative phonology. Empirical limits imposed by viewing grammars as cognitive representations. Physiological properties and phonological systems; articulatory phonetics and distinctive feature theory.

0101	Margaret Antonisse	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MMH 1304

LING350 **Philosophy of Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHIL170 or LING311. Also offered as: PHIL360. Credit only granted for: LING350 or PHIL360.

The nature and function of language and other forms of symbolism from a philosophical perspective.

0101	Alexander Williams TuTh 9:30am - 10:45am	Seats (Total: 30) SKN 1115

LING419K **Topics in Syntax; Island Constraints and their Exceptions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics vary.

Constraints on the form of wh-questions and related dependencies, apparent exceptions to these constraints, e.g. with resumptive pronouns. Grammatical and processing-based accounts of these constraints and exceptions.

0101	Nick Huang TuTh 12:30pm - 1:45pm	Seats (Total: 10) MMH 1304

LING440 **Grammars and Cognition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING321 and LING311.

Relationship between the structure, development and functioning of grammars and the structure, development and functioning of other mental systems. Interpretations of experimental and observational work on children's language, aphasia, speech production and comprehension.

0101	Ellen Lau TuTh 3:30pm - 4:45pm	Seats (Total: 20) MMH 3416K

LING444 **Child Language Acquisition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING311.

Examines language acquisition in infancy and early childhood: the natur of children's linguistic representations and how these develop naturally. Role of (possible) innate linguistic structure and interaction of such structure with experience. Evaluation of methods and results of current and classic research leading to contemporary models of language development.

0101	Jeffrey Lidz TuTh 9:30am - 10:45am	Seats (Total: 20) MMH 1304

LING448 **Advanced Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Conducting a research project in laboratory linguistics as part of a team creating original research relevant to current issues in linguistics.

0101	Jeffrey Lidz	Seats (Total: 15)
	Contact instructor or department for details.	

LING449P **Topics in Psycholinguistics; Acquisition: Learnability Puzzles that Children Solve**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Some parts of language acquisition are harder than others. Among the hard stuff, there are some cases where children seem to face a learnability problem: they have incorrect representations that result in their grammars generating all of the sentences that adult grammars do, but also other sentences that adult grammars do not generate. It seems that children nevertheless 'recover' from this overgeneration state. The question is: how? In this course we will examine cases of learnability puzzles that children somehow manage to recover from, develop hypotheses about how children do this, and plan experimental studies that would test these hypotheses.

0101	Andrea Zukowski	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	MMH 1304

LING499 **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING499C **Directed Studies in Linguistics; Teaching Assistantship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Designed for students that will be teaching assistants for LING200.

0101	Margaret Antonisse	Seats (Total: 4)
	Contact instructor or department for details.	

LING499H **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING610 **Syntactic Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING312.

Intensive introduction to transformational syntax.

0101	Howard Lasnik	Seats (Total: 15)	
	Tu 2:00pm - 4:30pm	MMH 1108B	
	Th 2:00pm - 3:30pm	MMH 1108B	Discussion

LING625 **Morphology and the Lexicon**

Credits: 3 Grading Method: Regular, Audit

The structure of words and investigation of how word formation processes interact with other components of grammar.

0101	Omer Preminger	Seats (Total: 20)
	Th 4:00pm - 6:30pm	MMH 1108B

LING640 **Psycholinguistics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Core graduate course in psycholinguistics, covering leading theoretical approaches and experimental methods in language acquisition, language processing, and neurolinguistics.

0101	Colin Phillips	Seats (Total: 20)
	MW 12:00pm - 1:30pm	MMH 1108B

LING646 **Cognitive Neuroscience of Language**

Credits: 3 Grading Method: Regular, Audit

Overview of classical and recent work on the neural basis of speech and language, with a goal of introducing contemporary methods and results to prepare the student to read the neurolinguistics and cognitive neuroscience literature. An emphasis will be placed on current techniques.

0101	Ellen Lau	Seats (Total: 20)
	MW 10:30am - 11:45am	MMH 1108B

LING660 **Introduction to Semantics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Basic concepts and methods of contemporary semantic theory including basic set theory, elementary propositional and predicate calculus, the structure of predicates and propositions, quantification binding. Prepares students for study of more advanced topics in semantics.

Also offered as PHIL688T. Credit granted for LING660 or PHIL688T.

0101	Alexander Williams	Seats (Total: 15)
	MW 9:00am - 10:15am	MMH 1108B

LING663 **Pragmatics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING660 or PHIL660; or permission of instructor. Recommended: LING661.

An intensive introduction to formal linguistic pragmatics: the study of systematic dependencies of meaning on context of use. Topics will include implicature, presupposition, reference, topic, focus, and the linguistic means of expressing these.

0101	Alexander Williams	Seats (Total: 15)
	TuTh 11:00am - 12:30pm	MMH 1108B

LING689 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Independent studies in grammatical theory.

Contact department for information to register for this course.

LING698 **Directed Study; Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Howard Lasnik	Seats (Total: 10)
	F 3:00pm - 5:00pm	Location: TBA

LING698T **Directed Study; Pedagogy for Linguistics**

Credits: 1 Grading Method: Regular, Audit

Required for LING200 Teaching Assistants.

0101	Margaret Antonisse	Seats (Total: 6)
	Contact instructor or department for details.	

LING723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: CMSC723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Formerly: LING645.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantic interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	CSI 1121

LING798 **Research Papers in Linguistics**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING819Q **Seminar in Syntactic Theory**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on syntactic theory.

0101	Juan Uriagereka	Seats (Total: 20)
	M 3:00pm - 6:00pm	MMH 1401G

LING848 **Seminar in Computational Linguistics**

Credits: 3 Grading Method: Regular, Audit

Current topics in research in computational linguistics.

0101	Philip Resnik, Omer Preminger	Seats (Total: 20)
	W 2:00pm - 4:30pm	MMH 1108B

LING849 **Seminar in Psycholinguistics**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on psycholinguistics.

3901	Jeffrey Lidz, Jan Edwards	Seats (Total: 20)
	M 2:00pm - 5:00pm	JMP 2124

LING889 **Directed Research**

Credits: 1-8 Grading Method: Regular, Audit

Contact department for information to register for this course.

LING895 **Doctoral Research Paper**

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

LING896 **Research Paper in Minor Area**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING888.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

Contact department for information to register for this course.

LING898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MATH Mathematics Fall 2017

MATH003 **Developmental Mathematics**

Credits: 3 Grading Method: Sat-Fail

A review of Intermediate High School Algebra intended for students preparing for one of the credit bearing Fundamental Studies Math Courses. It is taught in special computer labs using a self-paced computer program. The curriculum will be geared toward the student's level of algebra skills and eventual goals. There is a special fee for the course that may be applied in addition to the regular tuition charge. Students should refer to the schedule of classes for details on fees as they apply to a particular semester. The course does not carry any credit toward any degree at the University. The course is repeatable. Topics will be chosen from exponents, polynomials, linear equations, quadratic equations as well as polynomial, rational, exponential and logarithm functions and elementary probability or statistics, depending on the student.

There is a special fee for this class in addition to the regular tuition charge.

0102	Tiffany Moore	Seats (Total: 20)
	MWF 8:00am - 9:50am	PHY 4220
	Restricted to students in the STEP Program only. Contact Kaye Guidugli at (301) 314-8418 for more information.	

0201	Barbara Michelato MWF 10:00am - 11:50am	Seats (Total: 35) CEN 0200
0202	Barbara Michelato MWF 10:00am - 11:50am	Seats (Total: 25) PHY 4220
0302	Instructor: TBA MWF 12:00pm - 1:50pm	Seats (Total: 0) PHY 4220
0601	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 35) CEN 0200
0602	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 25) PHY 4220
0701	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 35) CEN 0200
0702	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 25) PHY 4220
FC01	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 35) CEN 0200
FC02	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) PHY 4220

MATH007 **Algebra for MATH 107**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH107. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH107, the same semester, which also meets 5 days per week. Continuation in MATH107 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include linear equations, linear inequalities, operations on polynomials, factoring, solutions of quadratic equations, as well as exponential and logarithm functions. MATH007 does not carry any credit toward any degree at the University, nor is it graded. It leads to either MATH107 or MATH003, both of which are graded.

1101	Debra Franklin MTuWThF 9:00am - 9:50am	Seats (Total: 22) CHM 0122
1201	Debra Franklin MTuWThF 11:00am - 11:50am	Seats (Total: 22) CHM 0128

MATH013 **Algebra for MATH 113**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH113. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH113, the same semester, which also meets 5 days per week. Continuation in MATH113 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential, logarithm functions, and trigonometry. MATH013 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH113 (or MATH110), or MATH003, all of which are graded.

1101	Santuria Orsetti MTuWThF 9:00am - 9:50am	Seats (Total: 28) MTH 0402
1201	Santuria Orsetti MTuWThF 11:00am - 11:50am	Seats (Total: 28) MTH 0402
1301	Santuria Orsetti MTuWThF 12:00pm - 12:50pm	Seats (Total: 29) MTH 0402
1401	Arthur Bruckheim MTuWThF 1:00pm - 1:50pm	Seats (Total: 29) MTH 0402

MATH015 **Algebra for MATH 115**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH115. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH115, the same semester, which also meets 5 days per week. Continuation in MATH115 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations in one and two variables, quadratic equations, as well as polynomial, rational, exponential, logarithm functions and trigonometry. MATH015 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH115 (or MATH111 or MATH113 or MATH110), or MATH003, all of which are graded.

1101	Arthur Bruckheim MTuWThF 9:00am - 9:50am	Seats (Total: 27) JMP 3202
1201	Arthur Bruckheim MTuWThF 11:00am - 11:50am	Seats (Total: 27) JMP 3202
1301	Ben Bezejouh MTuWThF 12:00pm - 12:50pm	Seats (Total: 27) JMP 3202
1401	Ben Bezejouh MTuWThF 1:00pm - 1:50pm	Seats (Total: 27) JMP 3202

MATH107 **Introduction to Math Modeling and Probability**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of Math 107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH120, MATH130, MATH136, or MATH140; and must not have completed MATH220; and must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220. Credit only granted for: STAT100, MATH107, MATH110, MATH111, MATH112, or MATH113. Formerly: Math 110 and Math 111. Additional information: Students who have credits for MATH107 may not also receive credits for STAT100, MATH110, MATH 111, MATH112, or MATH113.

A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.

0101	Jonathan Inbal MWF 11:00am - 11:50am	Seats (Total: 30) MTH B0425

0201	Jonathan Inbal MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH B0425
0301	William Schildknecht MWF 1:00pm - 1:50pm	Seats (Total: 30) MTH B0425
0302	Yixin Ren MWF 1:00pm - 1:50pm	Seats (Total: 30) MTH B0423
0401	Julie Daberkow MWF 2:00pm - 2:50pm	Seats (Total: 30) MTH B0425
0402	Yixin Ren MWF 2:00pm - 2:50pm	Seats (Total: 30) MTH B0423
1101	Debra Franklin MTuWThF 9:00am - 9:50am	Seats (Total: 22) CHM 0122
1201	Debra Franklin MTuWThF 11:00am - 11:50am	Seats (Total: 22) CHM 0128

MATH113 **College Algebra and Trigonometry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH130, MATH136, or MATH140; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, MATH140 or MATH220; and must not have completed MATH112 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH107, MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

0101	Mirna Pinsky MWF 10:00am - 10:50am	Seats (Total: 30) MTH B0427
0102	Jianlong Liu MWF 10:00am - 10:50am	Seats (Total: 34) MTH 0304

0103	Ioannis Markakis MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0407
0104	Levon Dovlatyan MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0409
0201	Mirna Pinsky MWF 11:00am - 11:50am	Seats (Total: 30) MTH B0427
0202	Jianlong Liu MWF 11:00am - 11:50am	Seats (Total: 34) MTH 0304
0203	Ioannis Markakis MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0407
0204	Levon Dovlatyan MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0409
0301	Adil Virani MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH 0401
0302	S Gilles MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH 0409
0303	Jermain McDermott MWF 3:00pm - 3:50pm	Seats (Total: 30) MTH 0307
0401	Adil Virani MWF 4:00pm - 4:50pm	Seats (Total: 29) MTH 0401
0402	S Gilles MWF 4:00pm - 4:50pm	Seats (Total: 29) MTH 0409
FC01	Eric Hamilton TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) CHM 2201
FC02	Jocelyn Menecio TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103

FC03	Eric Hamilton TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) CHM 2201	
FC04	Jocelyn Menecio TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103	
FC05	Jacqueline Stone MW 3:00pm - 4:15pm	Seats (Total: 30) MTH B0423	

MATH115 **Precalculus**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH120, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 or a TI-83+,TI 84, TI 84+, TI 86, or TI 89 calculator.

0111	Raluca Rosca MWF 9:00am - 9:50am MWF 10:00am - 10:50am	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0121	Raluca Rosca MWF 9:00am - 9:50am MWF 11:00am - 11:50am	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0131	Raluca Rosca MWF 9:00am - 9:50am MWF 12:00pm - 12:50pm	Seats (Total: 29) PHY 1412 PHY 4207	 Lab

0141	Raluca Rosca MWF 9:00am - 9:50am MWF 1:00pm - 1:50pm	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0151	Raluca Rosca MWF 9:00am - 9:50am TuTh 8:00am - 9:15am	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0161	Raluca Rosca MWF 9:00am - 9:50am TuTh 9:30am - 10:45am	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0171	Raluca Rosca MWF 9:00am - 9:50am TuTh 11:00am - 12:15pm	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0181	Raluca Rosca MWF 9:00am - 9:50am TuTh 12:30pm - 1:45pm	Seats (Total: 29) PHY 1412 PHY 4207	 Lab
0191	Raluca Rosca MWF 9:00am - 9:50am MWF 2:00pm - 2:50pm	Seats (Total: 29) PHY 1412 PHY 4207	 Discussion
0192	Raluca Rosca MWF 9:00am - 9:50am MWF 3:00pm - 3:50pm	Seats (Total: 29) PHY 1412 PHY 4207	 Discussion
FC01	Alex Blumenthal MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0106	
FC02	Stephen Balady MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) ESJ B0320	
FC03	Catherine VanNetta MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MMH 1304	

FC04	Stephen Balady MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) ESJ B0320	

MATH120 **Elementary Calculus I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR, FSMA

Prerequisite: 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH120, MATH130, MATH136, MATH140, or MATH220. Formerly: MATH220.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

0111	Timothy Pilachowski MWF 11:00am - 11:50am Th 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0201	Discussion
0112	Timothy Pilachowski MWF 11:00am - 11:50am Th 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0405	Discussion
0121	Timothy Pilachowski MWF 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 29) ARM 0131 MTH 0201	Discussion
0122	Timothy Pilachowski MWF 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 29) ARM 0131 MTH 0405	Discussion
0131	Timothy Pilachowski MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 29) ARM 0131 MTH B0421	Discussion
0132	Timothy Pilachowski MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 29) ARM 0131 MTH B0427	Discussion

0141	Timothy Pilachowski MWF 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 30) ARM 0131 MTH 0106	Discussion
0142	Timothy Pilachowski MWF 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 30) ARM 0131 MTH B0427	Discussion
0211	Scott Wolpert, Tobias von Petersdorff MWF 12:00pm - 12:50pm Tu 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH B0421	Discussion
0212	Scott Wolpert, Tobias von Petersdorff MWF 12:00pm - 12:50pm Tu 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH B0427	Discussion
0221	Tobias von Petersdorff, Scott Wolpert MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 29) ARM 0126 MTH 0106	Discussion
0222	Tobias von Petersdorff, Scott Wolpert MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 29) ARM 0126 MTH B0427	Discussion
0231	Tobias von Petersdorff, Scott Wolpert MWF 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 29) ARM 0126 MTH B0421	Discussion
0232	Tobias von Petersdorff, Scott Wolpert MWF 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 29) ARM 0126 MTH B0427	Discussion
0241	Tobias von Petersdorff, Scott Wolpert MWF 12:00pm - 12:50pm Tu 3:00pm - 3:50pm	Seats (Total: 29) ARM 0126 MTH B0421	Discussion
0242	Scott Wolpert, Tobias von Petersdorff MWF 12:00pm - 12:50pm Tu 3:00pm - 3:50pm	Seats (Total: 29) ARM 0126 MTH B0427	Discussion

0311	Sarah Yeakel TuTh 9:30am - 10:45am F 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0411	Discussion
0331	Sarah Yeakel TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 29) ARM 0131 MTH 0101	Discussion
0341	Sarah Yeakel TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 29) ARM 0131 MTH 0101	Discussion
0351	Sarah Yeakel TuTh 9:30am - 10:45am F 2:00pm - 2:50pm	Seats (Total: 30) ARM 0131 MTH 0101	Discussion
0411	Heyrim Cho TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 29) ARM 0135 MTH 0401	Discussion
0421	Heyrim Cho TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 29) ARM 0135 MTH 0401	Discussion
0431	Heyrim Cho TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 MTH 0101	Discussion
0432	Heyrim Cho TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 CHM 0128	Discussion
0441	Heyrim Cho TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 29) ARM 0135 MTH 0101	Discussion
0442	Heyrim Cho TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 27) ARM 0135 CHM 0124	Discussion

0451	Heyrim Cho TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0135 MTH 0101	Discussion
0461	Heyrim Cho TuTh 2:00pm - 3:15pm M 3:00pm - 3:50pm	Seats (Total: 29) ARM 0135 MTH 0302	Discussion
FC01	Bradford Sanders MW 4:30pm - 5:45pm	Seats (Total: 35) MTH 0201	
FC02	Terence Long MW 4:30pm - 5:45pm	Seats (Total: 35) MTH 0304	
FC03	Terence Long MW 6:00pm - 7:15pm	Seats (Total: 35) MTH 0106	

MATH121 **Elementary Calculus II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH121, MATH131, MATH141, or MATH221. Formerly: MATH 221.

Differential and integral calculus, with emphasis on elementary techniques of integration and applications.

0101	Yiming Lyu MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH B0427	
0201	Yiming Lyu MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH B0427	

MATH130 **Calculus I for the Life Sciences**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Restriction: Must be in a major in CMNS-Biological Sciences UG Program; and not open to students majoring in mathematics, engineering, or the physical sciences. Credit only granted for: MATH120, MATH130, MATH220, or MATH140.

Basic ideas of differential integral calculus, with emphasis on elementary techniques and applications to the life sciences.

0111	Harry Tamvakis TuTh 11:00am - 12:15pm WF 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0105	Discussion
0121	Harry Tamvakis TuTh 11:00am - 12:15pm WF 9:00am - 9:50am	Seats (Total: 29) ARM 0131 MTH 0105	Discussion
0131	Harry Tamvakis TuTh 11:00am - 12:15pm WF 10:00am - 10:50am	Seats (Total: 29) ARM 0131 MTH 0105	Discussion
0141	Harry Tamvakis TuTh 11:00am - 12:15pm WF 12:00pm - 12:50pm	Seats (Total: 30) ARM 0131 MTH 0105	Discussion
0211	Joel Cohen TuTh 12:30pm - 1:45pm MW 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0306	Discussion
0231	Joel Cohen TuTh 12:30pm - 1:45pm MW 11:00am - 11:50am	Seats (Total: 29) ARM 0131 MTH 0306	Discussion
0241	Joel Cohen TuTh 12:30pm - 1:45pm MW 12:00pm - 12:50pm	Seats (Total: 29) ARM 0131 MTH 0306	Discussion
0251	Joel Cohen TuTh 12:30pm - 1:45pm MW 1:00pm - 1:50pm	Seats (Total: 29) ARM 0131 MTH 0306	Discussion

MATH131 **Calculus II for Life Sciences**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH130; or minimum grade of C- in MATH140. Restriction: Must be in a major in CMNS-Biological Sciences UG Program. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH130, including an introduction to autonomous differential equations, probability (including conditional probability and the normal and binomial distributions), and statistical reasoning (including confidence intervals). Alongside the mathematical concepts will be applications in biology.

0111	Tamas Darvas TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 27) ARM 0135 MTH 0106	Discussion
0112	Tamas Darvas TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 27) ARM 0135 MTH 0103	Discussion
0121	Tamas Darvas TuTh 9:30am - 10:45am MW 11:00am - 11:50am	Seats (Total: 27) ARM 0135 MTH 0106	Discussion
0122	Tamas Darvas TuTh 9:30am - 10:45am MW 11:00am - 11:50am	Seats (Total: 27) ARM 0135 MTH 0103	Discussion
0131	Tamas Darvas TuTh 9:30am - 10:45am MW 2:00pm - 2:50pm	Seats (Total: 27) ARM 0135 MTH 0106	Discussion
0132	Tamas Darvas TuTh 9:30am - 10:45am MW 2:00pm - 2:50pm	Seats (Total: 27) ARM 0135 MTH 0105	Discussion
0141	Tamas Darvas TuTh 9:30am - 10:45am MW 3:00pm - 3:50pm	Seats (Total: 27) ARM 0135 MTH 0303	Discussion
0142	Tamas Darvas TuTh 9:30am - 10:45am MW 3:00pm - 3:50pm	Seats (Total: 27) ARM 0135 MTH 0105	Discussion

MATH140 **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH120, MATH130, MATH136, MATH140 or MATH220.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator. Emphasis on student interaction in groups, including team approach to solving calculus based problems. There will be 3 one-hour lectures and 2 eighty-minute workshops each week with enhanced assistance and support for students.

0111	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 0102	Discussion
0112	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 0302	Discussion
0113	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 25) PHY 1412 MTH 1313	Discussion
0121	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 0102	Discussion
0122	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 0302	Discussion
0123	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 25) PHY 1412 MTH 1313	Discussion
0131	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) PHY 1412 MTH 0102	Discussion

0132	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) PHY 1412 MTH 1313	Discussion
0311	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 EGR 3102	Discussion
0312	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 MTH 0104	Discussion
0313	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0131 MTH B0429	Discussion
0321	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 ITV 1111	Discussion
0322	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0104	Discussion
0323	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH B0429	Discussion
0331	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0131 MTH 0201	Discussion
0332	Nathaniael Manning MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ARM 0131 MTH 0106	Discussion
0411	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ESJ 0202 MTH 0105	Discussion

0412	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ESJ 0202 MTH B0425	Discussion
0413	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ESJ 0202 MTH 0103	Discussion
0421	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 MTH 0105	Discussion
0422	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 MTH B0425	Discussion
0423	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 0202 MTH 0103	Discussion
0431	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 0202 MTH 0105	Discussion
0432	Timothy Pilachowski MWF 1:00pm - 1:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 0202 MTH B0429	Discussion
0511	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 8:00am - 9:20am	Seats (Total: 25) ARM 0135 MTH B0423	Discussion
0512	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 8:00am - 9:20am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0521	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH B0423	Discussion

0522	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 9:30am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0531	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH B0423	Discussion
0532	Steven Chadwick MWF 2:00pm - 2:50pm TuTh 11:00am - 12:20pm	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0611	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
0612	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
0621	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
0622	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
0631	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
0632	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 25) ESJ 2208 ESJ 0215	Discussion
FC01	Arijit Sehanobish MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0103	

FC02	Terence Long MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHM 0127	
FC03	Tingyue Gan MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0201 MTH B0421	
FC04	Sean Ballentine MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0306 MTH 0306	 Discussion
FC05	Jacob Renn MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHM 0122 HBK 0103	 Discussion
FC06	Craig Schlenoff MW 4:30pm - 5:45pm Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0103 MTH 0106	 Discussion

MATH140H **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH120, MATH130, MATH136, MATH140 or MATH220.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

For general honors students only. Offered fall only. All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0101	Steven Chadwick MF 12:00pm - 12:50pm W 12:00pm - 1:50pm	Seats (Total: 26) MTH 0302 MTH 0302	
0201	Nathaniael Manning WF 2:00pm - 2:50pm M 2:00pm - 3:50pm	Seats (Total: 25) MTH 0403 MTH 0403	

MATH141 **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or 1 course with a minimum grade of B- from (MATH130, MATH136); and permission of CMNS-Mathematics department. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0111	Amin Gholampour MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH 0306	Discussion
0112	Amin Gholampour MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH 0304	Discussion
0121	Amin Gholampour MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0306	Discussion
0122	Amin Gholampour MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0304	Discussion
0131	Amin Gholampour MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH 0306	Discussion

0132	Amin Gholampour MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH 0304	Discussion
0141	Amin Gholampour MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0135 MTH 0306	Discussion
0142	Amin Gholampour MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0135 MTH 0304	Discussion
0211	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH 0106	Discussion
0212	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH 0409	Discussion
0221	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0106	Discussion
0222	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0409	Discussion
0231	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH 0106	Discussion
0241	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0135 MTH 0409	Discussion
0251	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0135 MTH 0409	Discussion

0261	Roohollah Ebrahimian MWF 12:00pm - 12:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0135 MTH 0409	Discussion
0311	Archana Khurana MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH 0401	Discussion
0312	Archana Khurana MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH 0306	Discussion
0321	Archana Khurana MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 0401	Discussion
0322	Archana Khurana MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 0306	Discussion
0331	Archana Khurana MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0126 MTH 0401	Discussion
0332	Archana Khurana MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0126 MTH 0306	Discussion
0341	Archana Khurana MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0126 MTH 0401	Discussion
0342	Archana Khurana MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0126 MTH 0302	Discussion
0411	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0302	Discussion

0412	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0405	Discussion
0421	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH 0302	Discussion
0422	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH 0405	Discussion
0431	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 0302	Discussion
0441	Bradford Sanders MWF 3:00pm - 3:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0126 MTH 0302	Discussion
FC01	Eric Hamilton MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) MTH 0405	
FC02	Maxx Cho MWTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 30) MTH 0304	

MATH141H **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or 1 course with a minimum grade of B- from (MATH130, MATH136); and permission of CMNS-Mathematics department. Credit only granted for: MATH121, MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

For general honors students only. TI graphics calculator required. Instructor will use a TI-83, TI-83+, TI 84, TI 84+, TI 86, or TI 89 calculator.

0101	Huanchen Bao WF 11:00am - 11:50am M 11:00am - 12:50pm	Seats (Total: 25) MTH 0105 MTH 0105
0201	Allan Yashinski MF 2:00pm - 2:50pm W 2:00pm - 3:50pm	Seats (Total: 25) MTH B0429 MTH B0429

MATH206 **Introduction to Matlab**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH136, MATH141). Credit only granted for: CMSC206, CMSC298M, MATH206, or MATH299M.

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

0101	Justin Wyss-Gallifent **Meets August 28, 2017 - October 10, 2017** Class time/details on ELMs	Seats (Total: 420) ONLINE

MATH212 **Elements of Numbers and Operations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed one year of college preparatory algebra. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH212 or MATH210.

Reviews and extends topics of arithmetic and number theory related to the elementary school curriculum, particularly number systems and operations with natural numbers, integers, and rationals.

0201	Karen McLaren MWF 10:00am - 10:50am	Seats (Total: 27) ESJ 0215
0601	Barbie Dunnan MWF 2:00pm - 2:50pm	Seats (Total: 27) MTH 0405

MATH213 **Elements of Geometry and Measurement**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH213.

Properties of geometric objects in two and three dimensions; parallel lines, curves and polygons; ratio, proportion, similarity; transformational geometry and measurement, constructions, justifications and proofs.

0101	Alexis Boleda MWF 9:00am - 9:50am	Seats (Total: 28) MTH 0302
0201	Alexis Boleda MWF 10:00am - 10:50am	Seats (Total: 28) MTH 0302

MATH214 **Elements of Probability and Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH214.

Permutations and combinations; probability; collecting and representing data; using statistics to analyze and interpret data.

0201	Karen McLaren MWF 9:00am - 9:50am	Seats (Total: 28) ESJ B0320

MATH240 **Introduction to Linear Algebra**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

0111	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 31) ARM 0126 ATL 1106	Discussion
0112	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 31) ARM 0126 CHM 0119	Discussion
0121	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 31) ARM 0126 MTH 0201	Discussion
0122	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 31) ARM 0126 MTH 0103	Discussion
0123	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 31) ARM 0126 PHY 1402	Discussion
0131	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 31) ARM 0126 MTH 0402	Discussion
0132	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 31) ARM 0126 MTH 0103	Discussion
0133	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 31) ARM 0126 MTH 0307	Discussion
0141	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH 0402	Discussion
0142	Joseph Iverson MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0126 MTH 0403	Discussion

0411	Terence Long MWF 12:00pm - 12:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 30) EGR 0108 MTH 0411	 Discussion
0421	Terence Long MWF 12:00pm - 12:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) EGR 0108 MTH 0411	 Discussion

MATH241 **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

0111	Christian Rosendal MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0135 MTH 0307	 Discussion
0112	Christian Rosendal MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0135 MTH 0403	 Discussion
0121	Christian Rosendal MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0135 MTH 0307	 Discussion
0122	Christian Rosendal MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0135 MTH 0403	 Discussion
0131	Christian Rosendal MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0135 MTH 0307	 Discussion

0132	Christian Rosendal MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0135 MTH 0403	Discussion
0141	Christian Rosendal MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0135 MTH 0101	Discussion
0142	Christian Rosendal MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0135 MTH 0407	Discussion
0211	Michael Laskowski MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 30) ARM 0135 MTH 0411	Discussion
0212	Michael Laskowski MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 26) ARM 0135 MTH 0104	Discussion
0221	Michael Laskowski MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0411	Discussion
0222	Michael Laskowski MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 26) ARM 0135 MTH 0104	Discussion
0231	Michael Laskowski MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH 0411	Discussion
0232	Michael Laskowski MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 26) ARM 0135 MTH 0104	Discussion
0241	Michael Laskowski MWF 10:00am - 10:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0135 MTH 0101	Discussion

0242	Michael Laskowski MWF 10:00am - 10:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0135 HBK 0103	Discussion
0311	Dionisios Margetis MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 30) ARM 0126 MTH 0402	Discussion
0312	Dionisios Margetis MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 30) ARM 0126 MTH 0409	Discussion
0321	Dionisios Margetis MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 1308	Discussion
0322	Dionisios Margetis MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 30) ARM 0126 MTH 0303	Discussion
0331	Dionisios Margetis MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 PHY 0405	Discussion
0332	Dionisios Margetis MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 MTH 0411	Discussion
0341	Dionisios Margetis MWF 11:00am - 11:50am TuTh 1:00pm - 1:50pm	Seats (Total: 29) ARM 0126 MTH B0423	Discussion
0342	Dionisios Margetis MWF 11:00am - 11:50am TuTh 1:00pm - 1:50pm	Seats (Total: 30) ARM 0126 MTH B0425	Discussion
0411	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0131 MTH 0401	Discussion

0412	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 8:00am - 8:50am	Seats (Total: 29) ARM 0131 PHY 1219	Discussion
0421	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0131 MTH 0401	Discussion
0422	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 9:00am - 9:50am	Seats (Total: 29) ARM 0131 PHY 1219	Discussion
0431	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0131 HBK 0123	Discussion
0432	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 10:00am - 10:50am	Seats (Total: 29) ARM 0131 PHY 1219	Discussion
0441	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0131 HBK 0103	Discussion
0442	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm TuTh 11:00am - 11:50am	Seats (Total: 29) ARM 0131 PHY 1219	Discussion
0511	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0407	Discussion
0512	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0103	Discussion
0521	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 MTH B0427	Discussion

0522	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 PHY 1402	 Discussion
0531	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 HBK 0105	 Discussion
0532	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 BPS 1228	 Discussion
0541	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 JMP 2202	 Discussion
0542	Wiseley Wong MWF 3:00pm - 3:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 PHY 0405	 Discussion

MATH241H **Calculus III**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

For general honors students only. MATH241H will use MATLAB.

0101	Jonathan Rosenberg MF 11:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 30) MTH 0411 MTH 0411	
0201	David Hamilton MF 1:00pm - 1:50pm W 1:00pm - 2:50pm	Seats (Total: 30) MTH 0103 MTH 0103	
0301	Samuel Punshon-Smith MTuWF 2:00pm - 2:50pm	Seats (Total: 27) MTH 0104	

MATH246 **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

0111	Kendall Williams MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0112	Kendall Williams MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0405	Discussion
0121	Kendall Williams MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 22) ARM 0126 PHY 1204	Discussion
0122	Kendall Williams MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 22) ARM 0126 EGR 1102	Discussion
0131	Kendall Williams MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0401	Discussion
0132	Kendall Williams MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 22) ARM 0126 EGR 3114	Discussion
0141	Kendall Williams MWF 9:00am - 9:50am Tu 12:00pm - 12:50pm	Seats (Total: 22) ARM 0126 EGR 1102	Discussion
0142	Kendall Williams MWF 9:00am - 9:50am Tu 12:00pm - 12:50pm	Seats (Total: 22) ARM 0126 EGR 0135	Discussion

0211	Antoine Mellet TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0403	Discussion
0212	Antoine Mellet TuTh 9:30am - 10:45am W 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0221	Antoine Mellet TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 22) ARM 0126 MTH 0403	Discussion
0222	Antoine Mellet TuTh 9:30am - 10:45am W 9:00am - 9:50am	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0231	Antoine Mellet TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 22) ARM 0126 MTH 0403	Discussion
0232	Antoine Mellet TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0241	Antoine Mellet TuTh 9:30am - 10:45am W 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0403	Discussion
0242	Antoine Mellet TuTh 9:30am - 10:45am W 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0411	Michael Jakobson TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 22) ARM 0135 MTH 0403	Discussion
0421	Michael Jakobson TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 22) ARM 0135 MTH 0403	Discussion

0431	Michael Jakobson TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 22) ARM 0135 MTH 0403	Discussion
0441	Michael Jakobson TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 22) ARM 0135 MTH 0411	Discussion
0511	Charles Levermore TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0512	Charles Levermore TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0521	Charles Levermore TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0522	Charles Levermore TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0531	Charles Levermore TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0532	Charles Levermore TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 25) ESJ 0224 ESJ 1215	Discussion
0601	Alice Wang TuTh 9:30am - 10:45am	Seats (Total: 22) ATL 2316	

MATH246H **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

For general honors students only. MATH241H will use MATLAB.

0101	Kendall Williams	Seats (Total: 33)
	TuTh 12:30pm - 1:45pm	MTH 0304

MATH274 **History of Mathematics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE

Prerequisite: MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220.

An overview of aspects in the history of mathematics from its beginning in the concrete problem solving of ancient times through the development of abstraction in the 19th and 20th centuries. The course considers both mathematical ideas and the context in which they developed in various civilizations around the world.

MATH 274 cannot satisfy a CMSC major requirement.

0101	Raluca Rosca	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0407

MATH299A **Selected Topics in Mathematics; Special Topics in Study Abroad II: Introduction to Mathematical Computing**

Credits: 3 | Grading Method: Regular

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH299B **Selected Topics in Mathematics; Putnam Express**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Roohollah Ebrahimian	Seats (Total: 22)
	M 4:00pm - 5:30pm	MTH 0102

MATH299N **Selected Topics in Mathematics; Number Theory Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

Prerequisite: Completion of two 400-level MATH courses.

0201	Lawrence Washington F 3:00pm - 3:50pm	Seats (Total: 20) MTH 0405

MATH310 **Introduction to Mathematical Proof**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department. Credit only granted for: MATH307 or MATH310. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0201	Kathryn Truman MWF 10:00am - 10:50am	Seats (Total: 28) MTH 0307
0301	Jeffrey Adams MWF 12:00pm - 12:50pm	Seats (Total: 28) MTH 0401
0401	Fei Wang MWF 11:00am - 11:50am	Seats (Total: 28) MTH 0101
0501	Stephen Balady MWF 1:00pm - 1:50pm	Seats (Total: 28) ESJ 0215

MATH314 **Introduction to Probability, Data, Analysis and Statistics for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH314 or STAT100.

Analysis of bivariate data, probability and randomness, law of large numbers, central limit theorem, probabilities for independent and dependent events, counting techniques, random variables and probability distributions, expected values, sampling distributions, and confidence intervals.

0101	William Viviani TuTh 2:00pm - 3:15pm	Seats (Total: 20) ASY 3217

MATH315 **Algebra for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH112, MATH113, or MATH315.

Algebraic concepts and techniques developed in the middle grades, with their larger mathematical context. Equations, inequalities and functions (linear, polynomial, exponential, logarithmic), with multiple representations of relationships. Common misconceptions of beginning algebra students.

0101	Carolina Napp-Avelli MW 2:00pm - 3:15pm	Seats (Total: 25) EDU 2212

MATH340 **Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and MATH140; and permission of CMNS-Mathematics department; and permission will be granted only to incoming freshmen. Credit only granted for: MATH241 or MATH340.

First semester of the MATH340-341 sequence which gives a unified and enriched treatment of multivariable calculus, linear algebra and ordinary differential equations, with supplementary material from subjects such as differential geometry, Fourier series and calculus of variations. Students completing MATH340-341 will have covered the material of MATH240, MATH241, and MATH246, and may not also receive credit for MATH240, MATH241 or MATH246.

0101	Niranjan Ramachandran MWF 9:00am - 10:15am	Seats (Total: 25) MTH B0421
0201	Casey Cremins MWF 3:00pm - 4:15pm	Seats (Total: 25) MTH 0101

MATH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS Mathematics Department.

Contact department for information to register for this course.

MATH401 **Applications of Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

0101	Wiseley Wong MWF 10:00am - 10:50am	Seats (Total: 32) MTH 0101
0201	Javier Morales Delgado MWF 12:00pm - 12:50pm	Seats (Total: 31) MTH 0307
0301	Justin Wyss-Gallifent MWF 1:00pm - 1:50pm	Seats (Total: 33) CHM 1228
0401	Michael Jakobson TuTh 11:00am - 12:15pm	Seats (Total: 32) MTH 0201
0501	Wiseley Wong MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH 0106

MATH402 **Algebraic Structures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461). Restriction: Must not be in any of the following programs (Mathematics (Master's); Mathematics (Doctoral)). Credit only granted for: MATH402 or MATH403.

For students having only limited experience with rigorous mathematical proofs. Parallels MATH403. Students planning graduate work in mathematics should take MATH403. Groups, rings, integral domains and fields, detailed study of several groups; properties of integers and polynomials. Emphasis is on the origin of the mathematical ideas studied and the logical structure of the subject.

0101	Frances Gulick TuTh 12:30pm - 1:45pm	Seats (Total: 25) EGR 2116

MATH403 **Introduction to Abstract Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH340); and 1 course with a minimum grade of C- from (MATH341, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department. Credit only granted for: MATH402 or MATH403.

Integers; groups, rings, integral domains, fields.

0101	Roohollah Ebrahimian MWF 2:00pm - 2:50pm	Seats (Total: 30) MTH 0305
0201	Xuhua He MWF 11:00am - 11:50am	Seats (Total: 25) MTH 1313

MATH405 **Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and minimum grade of C- in MATH310.

An abstract treatment of finite dimensional vector spaces. Linear transformations and their invariants.

0101	Harry Tamvakis TuTh 2:00pm - 3:15pm	Seats (Total: 31) MTH 0305
0201	Dipendra Prasad MWF 12:00pm - 12:50pm	Seats (Total: 31) MTH 0303

MATH406 **Introduction to Number Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

0101	Thomas Haines MWF 10:00am - 10:50am	Seats (Total: 28) MTH 1313
0201	Manjit Bhatia MWF 12:00pm - 12:50pm	Seats (Total: 28) MTH 0407
0301	James Schafer TuTh 12:30pm - 1:45pm	Seats (Total: 27) MTH 0102

MATH410 **Advanced Calculus I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department.

First semester of a year course. Subjects covered during the year are: sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.

0101	Kasso Okoudjou MWF 9:00am - 9:50am	Seats (Total: 30) MTH 0307
0201	Denny Gulick MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0303
0301	Manoussos Grillakis MWF 11:00am - 11:50am	Seats (Total: 30) MTH B0421
0401	Kendall Williams MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH 0304

0501	Charles Levermore TuTh 9:30am - 10:45am	Seats (Total: 30) MTH 0101
0601	Nathaniael Manning MWF 10:00am - 10:50am	Seats (Total: 30) MTH B0423

MATH411 **Advanced Calculus II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH410; and permission of CMNS-Mathematics department. Credit only granted for: MATH411 or MATH412.

Continuation of MATH410.

0101	David Hamilton MWF 10:00am - 10:50am	Seats (Total: 32) CHM 1228
0201	Matei Machedon TuTh 12:30pm - 1:45pm	Seats (Total: 32) MTH B0421

MATH416 **Applied Harmonic Analysis: An Introduction to Signal Processing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and familiarity with MATLAB is required.

Introduces students to the mathematical concepts arising in signal analysis from the applied harmonic analysis point of view. Topics include applied linear algebra, Fourier series, discrete Fourier transform, Fourier transform, Shannon Sampling Theorem, wavelet bases, multiresolution analysis, and discrete wavelet transform.

0101	Wojciech Czaja MWF 9:00am - 9:50am	Seats (Total: 25) MTH 0101

MATH424 **Introduction to the Mathematics of Finance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (STAT400, STAT410); and permission of CMNS-Mathematics department. Recommended: MATH246, MATH240, MATH241, MATH340, or MATH341. Credit only granted for: BMGT444, MATH424.

Introduction to the mathematical models used in finance and economics with emphasis on pricing derivative instruments. Designed for students in mathematics, computer science, engineering, finance and physics. Financial markets and instruments; elements from basic probability theory; interest rates and present value analysis; normal distribution of stock returns; option pricing; arbitrage pricing theory; the multiperiod binomial model; the Black-Scholes option pricing formula; proof of the Black-Scholes option pricing formula and applications; trading and hedging of options; Delta hedging; utility functions and portfolio theory; elementary stochastic calculus; Ito's Lemma; the Black-Scholes equation and its conversion to the heat equation.

0101	Steven Chadwick	Seats (Total: 34)
	MWF 10:00am - 10:50am	MTH 0306

MATH431 **Geometry for Computer Applications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Topics from projective geometry and transformation geometry, emphasizin the two-dimensional representation of three-dimensional objects and objects moving about in the plane and space. The emphasis will be on formulas and algorithms of immediate use in computer graphics.

0101	Brian Collier	Seats (Total: 25)
	MWF 10:00am - 10:50am	MTH 0104

MATH432 **Introduction to Topology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH410.

Metric spaces, topological spaces, connectedness, compactness (includin Heine-Borel and Bolzano-Weierstrass theorems), Cantor sets, continuous maps and homeomorphisms, fundamental group (homotopy, covering spaces, the fundamental theorem of algebra, Brouwer fixed point theorem), surfaces (e.g., Euler characteristic, the index of a vector field, hairy sphere theorem), elements of combinatorial topology (graphs and trees, planarity, coloring problems).

0101	Sarah Yeakel	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0105

MATH445 **Elementary Mathematical Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141.

Elementary development of propositional and predicate logic, including semantics and deductive systems and with a discussion of completeness, incompleteness and the decision problem.

0101	Caroline Terry	Seats (Total: 25)
	MWF 3:00pm - 3:50pm	MTH 0407

MATH452 **Introduction to Dynamics and Chaos**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH246; and 1 course with a minimum grade of C- from (MATH240, MATH461). Or minimum grade of C- in MATH340 and MATH341. Also offered as: AMSC452. Credit only granted for: AMSC452 or MATH452.

An introduction to mathematical dynamics and chaos. Orbits, bifurcations, Cantor sets and horseshoes, symbolic dynamics, fractal dimension, notions of stability, flows and chaos. Includes motivation and historical perspectives, as well as examples of fundamental maps studied in dynamics and applications of dynamics.

0101	Christian Rosendal	Seats (Total: 20)
	MWF 11:00am - 11:50am	MTH 1308

MATH456 **Cryptology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses). Or permission of instructor. Also offered as: CMSC456, ENEE456. Credit only granted for: MATH456, CMSC456 or ENEE456.

The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.

0101	Samuel Ranellucci	Seats (Total: 50)
	MW 5:00pm - 6:15pm	CSI 2117

MATH461 **Linear Algebra for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and must have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

0111	Allan Yashinski TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0106	Discussion
0112	Allan Yashinski TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0409	Discussion
0113	Allan Yashinski TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0121	Allan Yashinski TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0122	Allan Yashinski TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0302	Discussion
0131	Allan Yashinski TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH B0429	Discussion
0132	Allan Yashinski TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) ARM 0126 MTH 0305	Discussion

0141	Allan Yashinski TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0304	Discussion
0142	Allan Yashinski TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0302	Discussion
0143	Allan Yashinski TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) ARM 0126 MTH 0103	Discussion

MATH462 **Partial Differential Equations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

0101	Antoine Mellet TuTh 12:30pm - 1:45pm	Seats (Total: 27) MTH 1308	
0201	Ricardo Nochetto TuTh 2:00pm - 3:15pm	Seats (Total: 25) MTH 1313	

MATH463 **Complex Variables for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

0201	Richard Wentworth TuTh 9:30am - 10:45am	Seats (Total: 25) MTH 0407	

MATH464 **Transform Methods for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH246, MATH341).

Fourier transform, Fourier series, discrete fast Fourier transform (DFT and FFT). Laplace transform. Poisson summations, and sampling. Optional Topics: Distributions and operational calculus, PDEs, Wavelet transform, Radon transform and applications such as Imaging, Speech Processing, PDEs of Mathematical Physics, Communications, Inverse Problems.

0101	Wojciech Czaja	Seats (Total: 27)
	MWF 11:00am - 11:50am	MTH 0104

MATH470 **Mathematics for Secondary Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and MATH140; and must have completed one 400-level MATH course (not to include MATH461, 478, and 480's).

An advanced perspective on some of the core mathematics underlying high school mathematics courses. Topics include number systems, functions of one variable, equations, inequalities, trigonometric functions, curve fitting, and polynomials. The course includes an analysis of alternate approaches to mathematical ideas and problems, and makes connections between ideas that may have been studied separately in different high school and college courses.

0101	Catherine VanNetta	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	MMH 1304

MATH478A **Selected Topics For Teachers of Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MATH480 **Algebra for Middle School Teachers**

Credits: 3 Grading Method: Regular

Prerequisite: MATH214. Restriction: Must be a middle school teacher; and permission of CMNS-Mathematics department. Credit only granted for: MATH480 or MATH483. Additional information: Not applicable to MATH/STAT major or minor requirements.

Prepares teachers with elementary certification to teach Algebra 1 in middle school. Focuses on basic algebra concepts and related theoretical ideas.

Contact department for information to register for this course.

MATH489 **Research Interactions in Mathematics; Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Students participate in a vertically integrated (undergraduate, graduat and/or postdoctoral, faculty) mathematics research group. Format varies. Students and supervising faculty will agree to a contract which must be approved by the department. Up to three credits of MATH489 may be applied to the mathematics degree requirements. See the department's MATH489 online syllabus for further information.

Contact department for information to register for this course.

MATH498A **Selected Topics in Mathematics**

(Perm req)

Credits: 1-9 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH600 **Abstract Algebra I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH405 and MATH403; or students who have taken courses with comparable content may contact the department.

Groups with operators, homomorphism and isomorphism theorems, normal series, Sylow theorems, free groups, Abelian groups, rings, integral domains, fields, modules. Topics may include HOM (A,B), Tensor products, exterior algebra.

Offered fall only.

0101	Amin Gholampour	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	MTH 1313

MATH602 **Homological Algebra**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH600.

Projective and injective modules, homological dimensions, derived functors, spectral sequence of a composite functor. Applications.

0101	James Schafer	Seats (Total: 20)
	TuTh 9:30am - 10:45am	MTH 1311

MATH606 **Algebraic Geometry I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH600 and MATH601.

Prime and primary ideals in Noetherian rings, Hilbert Nullstellensatz, places and valuations, prevarieties (in the sense of Serre), dimension, morphisms, singularities, varieties, schemes, rationality.

0101	Thomas Haines	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	MTH 0409

MATH630 **Real Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department.

Lebesgue measure and the Lebesgue integral on R, differentiation of functions of bounded variation, absolute continuity and fundamental theorem of calculus, Lp spaces on R, Riesz-Fischer theorem, bounded linear functionals on Lp, measure and outer measure, Fubini's theorem.

0101	Radu Balan	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	CSI 4122

MATH634 **Harmonic Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH630.

L1 theory: Fejer theorem, inversion theorem, ideal structure, Tauberian theorem. L2 theory: Plancherel-Parseval theorems, Paley-Wiener theorem. Lp theory: Hausdorff-Young theorem. Distribution theory: Bochner's theorem, Wiener continuous measures theorem, Malliavin theorem, Schwartz theory, almost periodic functions.

0101	John Benedetto	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	MTH 1311

MATH670 **Ordinary Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH405. And MATH410; or students who have taken courses with comparable content may contact the department. Also offered as: AMSC670. Credit only granted for: AMSC670 or MATH670.

Existence and uniqueness, linear systems usually with Floquet theory for periodic systems, linearization and stability, planar systems usually with Poincare-Bendixson theorem.

0101	Dmitry Dolgopyat	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0407

MATH673 **Partial Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: AMSC673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only.

0101	Konstantina Trivisa	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MTH 0307

MATH689 **Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH695 **Teaching Seminar**

Credits: 1 Grading Method: Regular

Restriction: Must be in one of the following programs (Mathematics (Doctoral); Mathematics (Master's); Mathematical Statistics (Doctoral); Applied Mathematics and Scientific Computation (Master's); Mathematical Statistics (Master's); Applied Mathematics and Scientific Computation (Doctoral)).

A course intended for first year teaching assistants. Topics include: everyday mechanics of teaching; teaching methods and styles; technology; course enrichment, diversity in the classroom; sexual harassment; teacher-student interactions; presentations by students.

0101	Justin Wyss-Gallifent	Seats (Total: 25)
	W 4:00pm - 5:30pm	MTH B0421

MATH712 **Mathematical Logic I**

Credits: 3 Grading Method: Regular, Audit

Sentential logic, first-order languages, models and formal deductions. Basic model theory including completeness and compactness theorems, other methods of constructing models, and applications such as non-standard analysis.

0101	Michael Laskowski	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	MTH 2300

MATH730 **Fundamental Concepts of Topology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH403, MATH410, and MATH411; or students who have taken courses with comparable content may contact the department.

Survey of basic point set topology, fundamental group, covering spaces, Van Kampen's theorem, simplicial complexes, simplicial homology, Euler characteristics and classification of surfaces.

0101	Steve Halperin	Seats (Total: 25)
	MWF 9:00am - 9:50am	MTH 0104

MATH742 **Geometric Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH673 and MATH674; or MATH740.

Calculus of Variations, Bochner technique, Morse theory, weak solutions and elliptic regularity, maximum principle for elliptic and parabolic equations, Green's function of the Laplacian, isoperimetric and Sobolev inequalities, continuity method, curvature and comparison results, harmonic maps, curvature prescription problems.

0101	Yanir Rubinstein	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MTH B0431

MATH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH808A **Selected Topics in Algebra**

Credits: 1-3 Grading Method: Regular

Advanced topics of current interest.

Contact department for information to register for this course.

MATH808J **Selected Topics in Algebra; Moduli of Elliptic Curves**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Michael Rapoport	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	MTH 0102

MATH808L **Selected Topics in Algebra; Elliptic Curves**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Lawrence Washington	Seats (Total: 20)
	MWF 10:00am - 10:50am	MTH 1311

MATH818A **Selected Topics in Logic**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848A **Selected Topics in Geometry and Topology**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848E **Selected Topics in Geometry and Topology; Scissors Congruence and Invariants of 3-Manifolds**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Christian Zickert	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	EGR 2116

MATH858A **Selected Topics in Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH858N **Selected Topics in Analysis; Topics in Non-Linear Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Jacobo Pejsachowicz	Seats (Total: 20)
	MWF 2:00pm - 2:50pm	MTH 0401

MATH868A **SelectedTopics in Complex Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MEES Marine-Estuarine-Environmental Sciences Fall 2017

MEES498I **Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lecture and/or laboratory series organized to study a selected area of marine-estuarine-environmental sciences not otherwise considered in formal courses.

Also offered as MEES698I. Credit granted for MEES498I or MEES698I. Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Carys Mitchelmore	Seats (Total: 20)	
	TuTh 2:00pm - 3:30pm	HJP 1213B	

MEES607 **Quantitative Methods in Environmental Sciences**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH120 and MATH121; or must have completed MATH220 and MATH221; or students who have taken courses with comparable content may contact the department. Credit only granted for: MEES607 or MEES698G. Formerly: MEES698G.

Mathematical approaches and solutions (both analytical and numerical) that cut across environmental disciplines, and will introduce analytical techniques.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Lawrence Sanford, Hongsheng Bi	Seats (Total: 20)	
	MW 1:00pm - 2:20pm	HJP 1213B	
	F 8:00am - 9:00am	HJP 1213B	Discussion

MEES608B **Seminar in Marine-Estuarine-Environmental Sciences; Responsible Conduct of Research**

Credits: 1 Grading Method: Regular, Audit

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Thomas Miller, Russell Hill	Seats (Total: 20)
	M 11:30am - 12:20pm	HJP 1213B

MEES608D **Seminar in Marine-Estuarine-Environmental Sciences; Scientific Writing and Communication**

Credits: 2 Grading Method: Regular, Audit

Taught at the Horn Point Laboratory and on the Interactive Video Network.

0101	Elizabeth North	Seats (Total: 24)
	F 9:00am - 10:50am	HJP 1213B

MEES608O **Seminar in Marine-Estuarine-Environmental Sciences; Current Topics in Omics: Cell Biology, Genetics and Genomics**

Credits: 2 Grading Method: Regular, Audit

Course is taught at the Institute of Marine & Environmental Technology, Baltimore, MD and on the Interactive Video Network.

0101	Jum Sook Chung, Shao Du	Seats (Total: 10)
	F 12:00pm - 1:50pm	HJP 1213B

MEES618A **Seminars in Marine Estuarine Environmental Sciences; Transdisciplinary Science for Environmental Problem Solving**

Credits: 2 Grading Method: Regular, Audit

Topics of interest in Marine Estuarine Environmental Sciences

Taught from Horn Point Laboratories (HPL) using Bluejeans.

0101	William Dennison	Seats (Total: 15)
	F 10:00am - 11:50am	HJP 1213C

MEES626 **Environmental Geochemistry I**

Credits: 3 Grading Method: Regular, Audit

Recommended: Completion of one semester of physical chemistry is recommended. Restriction: Permission of instructor. Credit only granted for: MEES626 or MEES698L. Formerly: MEES698L.

Brief overview of biogeochemical cycles; fundamental aquatic chemistry that can be applied to a variety of environmental systems.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Johan Schijf MW 8:30am - 9:50am	Seats (Total: 25) HJP 1213C

MEES640 **Interconnected Earth Systems:Land, Ocean, and Estuary**

Credits: 4 Grading Method: Regular, Audit

Explores the interconnected physical and biogeochemical systems of land, estuary, and ocean with cross cutting themes of human impacts and global change. Broad concepts will be combined with targeted interactive case studies to demonstrate how these systems are linked by humans, climate, and water.

Taught on the Interactive video network.

0101	Cindy Palinkas, Keith Eshleman, Laura Lapham TuTh 11:00am - 12:50pm	Seats (Total: 10) HJP 1213B

MEES660 **Ecological Systems**

Credits: 4 Grading Method: Regular, Audit

An introduction to the field of ecology is provided for matriculating graduate students and prepares them for more advanced concepts. Students will be exposed to ecology both in theory and practice through lectures, readings, and quantitative exercises, round table debates and discussions with current practitioners.

Taught on teh Interactive video network.

0101	Lora Harris, Robert Hilderbrand TuTh 9:00am - 10:50am	Seats (Total: 20) HJP 1213B

MEES680 **Cell and Molecular Biology for the Environmental Scientist- From Genes to Ecosystems**

Credits: 4

Grading Method: Regular,
Audit

Introduces environmental scientists to the methods and approaches that are the foundations for today's breakthroughs in molecular and cellular biology. Detailed examination of papers published in the last few years along with online background materials will be used to reinforce the connection of key concepts to experimentation.

Taught at the Institute of Marine & Environmental Technology (IMET) and over the Interactive Video Network.

0101	Allen Place, Rosemary Jagus	Seats (Total: 10)
	MW 8:00am - 9:50am	HJP 1213B

MEES698B **Special Topics in Marine-Estuarine-Environmental Sciences; Environmental Statistics I**

Credits: 3

Grading Method: Regular,
Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Dong Liang, Viacheslav Lyubchich	Seats (Total: 35)
	MW 10:00am - 11:30am	HJP 1213B

MEES698E **Special Topics in Marine-Estuarine-Environmental Sciences; Principles and Practices of Ecosystem Restoration**

Credits: 3

Grading Method: Regular,
Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as GEOL453 and GEOL789L. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

MEES698I **Special Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as MEES498I. Credit granted for MEES498I or MEES698I. Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Carys Mitchelmore	Seats (Total: 20)
	TuTh 2:00pm - 3:30pm	HJP 1213B

MEES698R **Special Topics in Marine-Estuarine-Environmental Sciences; Stable Isotopes in Environmental Research**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at Appalachian Laboratories (AL) and over the Interactive Video Network (IVN).

0101	Laura Lapham, David Nelson, Lee Cooper	Seats (Total: 10)
	TuTh 9:00am - 10:20am	HJP 1213C

MEES698X **Special Topics in Marine-Estuarine-Environmental Sciences; Global Environmental Remote Sensing**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at Appalachian Laboratories (AL) and over the Interactive Video Network (IVN).

0101	Gregory Silsbe, Andrew Elmore TuTh 10:30am - 11:50am	Seats (Total: 10) HJP 1213C

MEES699 **Special Problems in Marine-Estuarine-Environmental Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research on specialized topics under the direction of individual faculty members.

Contact department for information to register for this course.

MEES708W **Advanced Topics in Marine-Estuarine-Environmental Science; Algae, Bioenergy and Biodiversity**

Credits: 2 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at (IMET) and over the Interactive Video Network (IVN). Formerly offered as MEES708U (Fall 2016).

0101	Tsvetan Bachvaroff, Yantao Li M 2:30pm - 4:20pm	Seats (Total: 10) HJP 1213C

MEES718A **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Long-term Change in the Patuxent Estuary**

Credits: 2 Grading Method: Regular, Audit

Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.

Taught at Chesapeake Biological Laboratories (CBL) and over the Interactive Video Network (IVN).

0101	Ryan Woodland, Laura Lapham M 2:30pm - 4:20pm	Seats (Total: 15) Location: TBA

MEES718W **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Classic Readings in Ecology**

Credits: 2 Grading Method: Regular, Audit

Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.

Taught at Appalachian Laboratories (AL) and over the Interactive Video Network (IVN).

0101	Katharina Engelhardt	Seats (Total: 15)
	F 12:00pm - 2:00pm	HJP 1213C

MEES799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MEES898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MEES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health — Fall 2017

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits. And must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

0101	Sacoby Wilson	Seats (Total: 20)	
	MW 9:00am - 9:50am	SPH 1312	
	W 10:00am - 10:50am	SPH 0307	Discussion

0102	Sacoby Wilson MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 20) SPH 1312 PLS 1172	Discussion
0103	Sacoby Wilson MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 20) SPH 1312 PLS 1176	Discussion
0104	Sacoby Wilson MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 20) SPH 1312 EGR 3102	Discussion
0105	Sacoby Wilson MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 20) SPH 1312 CHE 2116	Discussion
0106	Sacoby Wilson MW 9:00am - 9:50am F 11:00am - 11:50am	Seats (Total: 20) SPH 1312 JMP 1202	Discussion
SG91	Sharon Barrett Tu 2:00pm - 4:30pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 35) BLD2 2052	

MIEH309 **Environmental Health Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)

0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton, Jennifer German Contact instructor or department for details.	Seats (Total: 25)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Kristin Cipriani Contact instructor or department for details.	Seats (Total: 5)
0208	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)
0209	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)
0210	Muhiuddin Haider Contact instructor or department for details.	Seats (Total: 5)

MIEH321 **Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Syphilis to SARS will examine the influences of environmental factors, economic development, migration, and land use changes on emergence and reemergence of infectious diseases. Population growth, development, and climate change are impacting natural reservoirs of infectious diseases and how they transmit through human populations. The course will look at both historical accounts and newly emerging and reemerging diseases including influenza as examples of our role in altering the diseases that threaten us. We will also critically evaluate how the issues are portrayed in news and entertainment media and controversy about the ethics of research on deadly viruses.

0101	Michael Bazaco Tu 6:00pm - 8:30pm	Seats (Total: 30) SPH 0303

MIEH330 **Environmental Justice, Racism, and Environmental Health Disparities: How where you live can kill you**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MIEH300. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: MIEH210 or MIEH330. Formerly: MIEH210.

Examination of environmental justice history, theory and science; discussion of linkages between the physical, natural, and social environments and environmental injustice; analysis of how environmental injustice can lead to adverse health conditions and environmental health disparities; discuss environmental justice case studies; and understanding of tools that can be used to understand and address environmental justice issues.

0101	Sacoby Wilson TuTh 12:30pm - 1:45pm	Seats (Total: 30) ATL 2416	

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from (SPHL100, PHSC300). Restriction: Must be in the Public Health Science program or must have permission of the program director; and must have completed 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

0101	Amir Sapkota MW 4:00pm - 4:50pm Th 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 EGR 3114	 Discussion
0102	Amir Sapkota MW 4:00pm - 4:50pm Th 12:30pm - 1:20pm	Seats (Total: 20) ESJ 2208 CHE 2116	 Discussion
0103	Amir Sapkota MW 4:00pm - 4:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 EGR 3102	 Discussion
0104	Amir Sapkota MW 4:00pm - 4:50pm F 9:00am - 9:50am	Seats (Total: 20) ESJ 2208 PLS 1168	 Discussion

0105	Amir Sapkota MW 4:00pm - 4:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 CHE 2136	Discussion
0106	Amir Sapkota MW 4:00pm - 4:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 CHE 2136	Discussion

MIEH600 **Foundations of Environmental Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.

0101	Paul Turner F 1:00pm - 3:45pm	Seats (Total: 20) SPH 0305
PLH1	James McDevitt Contact instructor or department for details. *Restricted to students in MPH-PHPP or GC-PPH programs.*	Seats (Total: 35)

MIEH605 **Fundamentals of Global Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: SPHL600 or SPHL698A. Formerly: SPHL698A.

Exploration of theoretical frameworks and practicial perspectives in global health with particular attention to the analysis of the biological, epidemiological, social, cultural and behavioral interactions that affect global health study and project implementation. The emphasis is on innovative solutions to health issues in underserved populations.

0101	Muhiuddin Haider, Steven Ault W 5:00pm - 7:00pm Class time/details on ELMs *Every other lecture will be delivered in-person at the University of Maryland, College Park campus.*	Seats (Total: 10) CCC 1105 ONLINE

GH01	Muhiuddin Haider, Steven Ault W 5:00pm - 7:00pm Class time/details on ELMs	Seats (Total: 10) CCC 1105 ONLINE

MIEH606 **Addressing Current, Pressing Global and Environmental Public Health Challenges in Bangladesh**

Credits: 3 Grading Method: Regular, Audit

Restriction: Senior undergraduates may enroll with instructor's permission.

This course focuses on how to operationalize public health field research/practice on the ground in Bangladesh. The public health threat that will be addressed is solid waste management in Dhaka. With a landmass equivalent to the State of Wisconsin and the world's eighth largest poulation, Bangladesh is the most densely populated country on the globe. This course will give students the opportunity to collaborate virtually with students in Bangladesh.

0101	Muhiuddin Haider F 8:30am - 10:30am Class time/details on ELMs	Seats (Total: 10) SPH 2234CC ONLINE

MIEH688 **Seminar in the Maryland Institute for Applied Environmental Health: Current Topics in Environmental Health**

Credits: 1 Grading Method: Sat-Fail

Invited and in-house research presentations from guest scientists, faculty members, and students, and critical analysis of journal articles on current topics in environmental and occupational health.

0101	Donald Milton Contact instructor or department for details.	Seats (Total: 10)

MIEH735 **Food Toxicology**

Credits: 3 Grading Method: Regular, Audit

Recommended: BSCI440, CHEM131, or BCHM462. Also offered as: NFSC735. Credit only granted for: MIEH735 or NFSC735.

An introduction to basic concepts in toxicology in relation to toxic food contaminants and additives; both synthetic and naturally occurring. Focus on exposure routes, molecular targets and susceptible individuals. Also includes regulatory toxicology with respect food toxins.

0101	Paul Turner, Robert Buchanan W 1:00pm - 3:45pm	Seats (Total: 20) TYD 2108

MIEH740 **Environmental Health Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH600; or permission of instructor.

Review of the major methods of human and ecological risk assessment conducted by the U.S. Environment Protection Agency. Emphasis on sources of uncertainty.

0101	Abdel-Razak Kadry M 4:00pm - 6:45pm	Seats (Total: 15) PLS 1168

MIEH760 **Spatial Epidemiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed an Introduction biostatistics course. Recommended: Completion of a graduate epidemiology course, or environmental health course, or geography/GIS course.

The purpose of this survey course is to provide students with an introduction to spatial resources and methods specific to public health, with an emphasis on epidemiology and environmental applications. Students will be introduced to spatial resources, concepts, and tools relevant to public health research and practice. They will acquire skills to interpret, evaluate, and design basic public health spatial research projects; and to conduct simple spatial analyses.

0101	Robin Puett W 4:00pm - 6:45pm Class time/details on ELMs	Seats (Total: 10) SPH 2387 ONLINE

MIEH773 **Foodborne, Waterborne and Airborne Infectious Diseases**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: MIEH600; or permission of instructor.

In-depth study of foodborne, waterborne and airborne diseases caused by bacteria, viruses and parasites. Topics will include sources and detection of causative agents; their transmission to humans via food, water, air and other environmental media; and methods of disease prevention, including food safety approaches and drinking water treatment. Classes include lectures, discussions, field-trips and hands-on field sampling and laboratory activities.

0101	Amy Sapkota	Seats (Total: 15)
	W 9:00am - 11:45am	EGR 3111

MIEH780 **Occupational Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH720 and MIEH771; and must have completed SPHL602. Or permission of instructor.

A synthesis of epidemiology, toxicology, exposure science, risk assessment, and policy. Emphasis will be on methods for anticipating, recognizing, evaluating and controlling workplace hazards; the hierarchy of controls; and current hot topics in occupational health.

0101	Lesliam Quiros Alcala	Seats (Total: 15)
	Tu 4:00pm - 6:45pm	SPH 2234CC

MIEH785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of SPHL-Maryland Institute for Applied Environmental Health. Credit only granted for: MIEH785 or MIEH778.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Robin Puett	Seats (Total: 5)
	Contact instructor or department for details.	

MIEH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0201	Paul Turner	Seats (Total: 5)
	Contact instructor or department for details.	

0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)
0208	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)
0209	Stephen Roth Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

Contact department for information to register for this course.

MIEH789 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MIEH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MITH Maryland Institute for Technology in the Humanities — Fall 2017

MITH388 **Digital Humanities Internship**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

An applied introduction to the theory and practice of digital research. The internship includes regular meetings with MITH staff, including designers, developers, information professionals, project managers, and faculty, to gain knowledge of existing digital scholarship and resources within the arts and humanities. Students may contribute to existing MITH projects or propose a small, independent research project on which they will receive support from MITH staff.

0101	Purdom Lindblad	Seats (Total: 4)
	Contact instructor or department for details.	

MITH729 **Colloquium in Digital Studies**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Colloquium in support of the ARHU-MITH Graduate Certificate in Digital Studies. We will meet periodically (approximately 4-5 times a semester) to read and discuss current work in the field, interact with visiting speakers, share work in progress, learn new tools and methods, and hear research presentations from one another.

Class meets in TWS 3136 on the following dates: 9/8, 10/6, 11/3, 12/8.

0101	Matthew Kirschenbaum	Seats (Total: 20)
	F 3:00pm - 5:00pm	Location: TBA

MLAW MPower Undergraduate Law Programs — Fall 2017

MLAW100 **Justice and the Law**

Credits: 3 Grading Method: Regular

Restriction: Course enrollment is restricted to students in the College Park Scholars Justice and Legal Thought Program (CPJT).

An exploration into the relationship between justice and law, including psychological, philosophical, political and legal approaches to justice, as well as an analytical framework for understanding human rights.

Restricted to College Park Scholars students in the Justice & Legal Thought Program.

0101	Karol Soltan	Seats (Total: 25)	
	TuTh 11:00am - 11:50am F 9:00am - 9:50am	CCC 1205 CCC 1200	Discussion
0102	Karol Soltan	Seats (Total: 25)	
	TuTh 11:00am - 11:50am F 10:00am - 10:50am	CCC 1205 CCC 1200	Discussion
0103	Karol Soltan	Seats (Total: 25)	
	TuTh 11:00am - 11:50am F 11:00am - 11:50am	CCC 1205 CCC 1200	Discussion

MLAW304 **Introduction to Law and Social Inquiry**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Law and Society (MLAW) minor.

An exploration of the relationship between law and society from an interdisciplinary perspective. Major themes cover the impact of law on society, society on law and social change.

0101	Robert Koulish	Seats (Total: 79)	
	TuTh 9:30am - 10:45am	TYD 2109	

MLAW358E **Selected Topics in Law and Society; Environmental Law**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

An in depth analysis of special topics in environmental law through a societal lens that includes an examination of domestic and international law, policy, and politics.

0101	Robert Percival	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 0205

MLAW358F **Selected Topics in Law and Society; First Amendment: Free Speech, Religion and the Constitution**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

An exploration into the general principles of the First Amendment with specific emphasis on the speech and religion clauses.

0101	Michael Spivey	Seats (Total: 30)
	MW 11:00am - 12:15pm	BPS 1236

MLAW358P **Selected Topics in Law and Society; Law and Policy of Inner City/Urban Policing**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Focuses on the important legal impact of policing through pattern and practice caseload utilizing the Fourth Amendment and other legal resources. Specific emphasis on statutory civil rights.

0101	Michael Greenberger	Seats (Total: 40)
	W 5:00pm - 7:30pm	TWS 1310

MLAW377 **The Legal Profession**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Law and Society Minor.

Designed to introduce students to a variety of legal fields. The course is designed to combine social science literature about the legal profession with real world experiences with lawyers and legal workers. It will address questions about law as a profession, field of advocacy and as a business.

0101	Brandee Pettus, Monya Bunch	Seats (Total: 48)
	M 4:00pm - 6:30pm	ITV 1111

MLAW388 **Law and Society Internship**

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

0101	Brandee Pettus	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

MLSC MD Language Science Ctr Fall 2017

MLSC308 **PULSAR Language Science Research Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research seminar for students in the PULSAR language science program. Weekly presentations and discussions on diverse topics in language science research, as well as on developing research skills.

0101	Tess Wood	Seats (Total: 25)
	Th 3:45pm - 4:45pm	HJP 2124

MOCB Molecular and Cell Biology Fall 2017

MOCB608 **Molecular and Cell Biology Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar in molecular and cell biology.

0101	Jonathan Dinman	Seats (Total: 12)
	Contact instructor or department for details.	

MOCB699 **Laboratory Rotation**

(Perm req)

Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MOCB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MUED Music Education Fall 2017

MUED155 **Fundamentals for the Classroom Teacher**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Early Childhood Education; Elementary Education) ; or must be a Pre-Elementary Education major; or must be a Pre-Early Childhood Education major.

The fundamentals of music theory and practice, related to the needs of the classroom and the kindergarten teacher.

0101	Michael Ruybalid	Seats (Total: 25)	
	MW 4:15pm - 5:30pm	PAC 3160	

MUED186 **Pre-professional Experiences I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Music Education program. Additional information: Fulfills the College of Arts and Humanities requirement for ARHU158.

An orientation into the role of the music teacher in the school and community. On-site school visits at elementary, middle and high school levels form the basis for discussion and exploration of all facets of the music education profession.

0101	Michael Ruybalid	Seats (Total: 30)	
	MW 10:00am - 10:50am	PAC 2130A	
	W 9:00am - 9:50am	PAC 2130A	Lab

MUED214 **String Technique and Pedagogy II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a major in Music Education-instrumental option.

A study in violin, viola, cello and bass technique and pedagogy; intermediate to advanced level. Emphasizes group process playing and teaching, chamber music and individual technique development.

0101	Gene Pohl MWF 10:00am - 10:50am	Seats (Total: 25) PAC 2540

MUED215 **Woodwind Technique and Pedagogy**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Music department.

Playing experience on instruments of the woodwind family. Historical and acoustical background. Basic concepts of teaching. Methods and materials. Techniques of individual and class instruction.

0101	Stephanie Prichard TuTh 2:00pm - 3:15pm	Seats (Total: 15) PAC 2540
0201	Stephanie Prichard Contact instructor or department for details.	Seats (Total: 5)

MUED320 **Teaching Secondary Instrumental Music I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUED187. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to extend secondary-level musical skill through planned instruction and development of teaching materials.

0101	Stephanie Prichard TuTh 9:30am - 10:45am	Seats (Total: 12) PAC 1230

MUED420 **Teaching Secondary Instrumental Music II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: MUED320 and MUED311. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and/or maintain an exemplary, curricular-oriented, research-based, comprehensive secondary instrumental program.

0101	Michael Hewitt Tu 9:20am - 11:00am	Seats (Total: 20) PAC 2540

MUED471 **Teaching General Music**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUED222 and MUED333. Restriction: Must be in Music Education program.

An examination of children's musical development via model teaching experiences. Students in this course will be involved in learning appropriate techniques and materials used to plan, deliver, and assess musical instruction effectively in general music settings for K-12 students. The focus is on how to implement a sequential, balanced, and comprehensive music curriculum (i.e., artistic processes: creating, performing, and responding) that emphasizes opportunities for students to construct their own learning.

0101	Michael Ruybalid	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 2130A

MUED474 **Field Experiences: Pre-Student Teaching**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUED420 and MUED411; or (MUED472 and MUED471). Restriction: Permission of ARHU-School of Music department; and senior standing.

Field experiences to fulfill teaching requirements in K-12 music teache education program.

0101	Michael Hewitt	Seats (Total: 15)
	Contact instructor or department for details.	

MUED484 **Student Teaching in Elementary School: Music**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Corequisite: MUED494. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfills elementary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

0101	Stephanie Prichard	Seats (Total: 15)
	Contact instructor or department for details.	

MUED489G **Field Experiences; Field Experiences-General**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Series of field experiences in K-12 settings.

0101	Michael Ruybalid	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	PAC 2130A

MUED489I **Field Experiences; Field Experiences-Instrumental**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Series of field experiences in K-12 settings.

0101	Michael Hewitt	Seats (Total: 20)	
	Th 8:00am - 11:30am	Location: TBA	Lab

MUED494 **Student Teaching in Secondary School: Music**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Corequisite: MUED484. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfill secondary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

Students must pay a $750.00 student teaching fee.

0101	Stephanie Prichard	Seats (Total: 15)
	Contact instructor or department for details.	

MUED692 **Foundations and Perspectives of Music Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department.

An introduction to historical, sociological, and philosophical perspectives of music education.

0101	Michael Hewitt	Seats (Total: 15)
	M 5:00pm - 7:30pm	PAC 2130A

MUSC School of Music Fall 2017

MUSC001 **MUSP Course Evaluation**

(Perm req)

Credits: 0 Grading Method:

Contact department for information to register for this course.

MUSC099 **Performance Attendance**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Performance attendance laboratory for undergraduate music majors.

0101	Luke Spence Contact instructor or department for details.	Seats (Total: 150)

MUSC102 **Class Piano**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

For MUSC majors only.

0101	Rodion Efremov TuTh 2:00pm - 3:15pm	Seats (Total: 14) PAC 1123
0201	Jungyeon Yim MWF 11:00am - 11:50am	Seats (Total: 14) PAC 1123
0301	Katherine Vest MWF 1:00pm - 1:50pm	Seats (Total: 14) PAC 1123
FC01	Yao Lin TuTh 3:15pm - 4:30pm *Restricted to students in Freshman Connection.*	Seats (Total: 14) PAC 1123

MUSC102B **Class Piano**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

0101	Katherine Vest	Seats (Total: 14)
	TuTh 11:00am - 12:15pm	PAC 1123

MUSC106 **Beginning Classical Guitar**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to classical guitar notation, technique, literature and performance. No previous musical experience required.

For students with no previous musical experience.

0101	Gerard Kunkel	Seats (Total: 12)
	MW 11:00am - 11:50am	PAC 1230

MUSC123 **Movement for Singers**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

Systematic exercises, improvisations and dances in conjunction with artistic vocal expression. Performance and critique of stage deportment, gestures and recital techniques.

0101	Carmen Balthrop	Seats (Total: 15)
	Tu 6:15pm - 7:45pm	TWS 1121

MUSC127 **Vocal Diction: Italian**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within the ARHU-School of Music department.

Augmentation of private voice study. Phonetics and diction for singers of Italian vocal literature.

0101	Diba Alvi	Seats (Total: 15)
	TuTh 2:00pm - 2:50pm	PAC 3164

MUSC128 **Sight Reading For Pianists**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A course to give the piano major an opportunity to develop proficiency in sight reading at the keyboard.

0101	Rodion Efremov	Seats (Total: 5)
	MW 10:00am - 10:50am	PAC 1123

MUSC129 **Ensemble**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

FC01	David Salness	Seats (Total: 1)
	Contact instructor or department for details.	
	Restricted to Freshman Connection.	
FC02	Lee Hinkle	Seats (Total: 1)
	Contact instructor or department for details.	
	Restricted to students in Freshmen Connection.	

MUSC129A **Ensemble; Chamber Music - Strings**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	David Salness	Seats (Total: 45)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab

MUSC129B **Ensemble; Chamber Woodwinds**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Mark Hill	Seats (Total: 40)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab

MUSC129C **Ensemble; Chamber Music - Brasses**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Gregory Miller	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab

MUSC129G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	I Suadin	Seats (Total: 20)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC129K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 10)	
	Tu 5:30pm - 7:00pm	PAC 3160	Lab

MUSC129L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC129P **Ensemble; Percussion**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Lee Hinkle	Seats (Total: 15)	
	M 5:00pm - 7:30pm	PAC 2540	Lab
	W 5:15pm - 7:15pm	PAC 2540	Lab

MUSC129Q **Ensemble; Korean Percussion Ensemble**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Sebastian Wang	Seats (Total: 17)	
	Th 7:00pm - 8:30pm	PAC 2170	

MUSC130 **Survey of Music Literature**

Credits: 3 Grading Method: Regular, Audit CORE: HA General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

0101	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 13) TYD 0117 PAC 3168	Discussion
0102	William Robin MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 15) TYD 0117 PAC 3168	Discussion
0103	William Robin MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 15) TYD 0117 PAC 3160	Discussion
0104	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 15) TYD 0117 PAC 3168	Discussion
0105	William Robin MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 15) TYD 0117 PAC 3160	Discussion

MUSC130H **Survey of Music Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

For general honors students only.

0109	William Robin MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 10) TYD 0117 PAC 3160	Discussion

MUSC130S **Survey of Music Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

Restricted to College Park Scholars - Arts.

0101	William Robin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 7) TYD 0117 PAC 3168	 Discussion

MUSC140 **Music Fundamentals I**

Credits: 3 | Grading Method: Regular, Audit | CORE: HA | General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

0101	Dominic Ellis MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0102	Dominic Ellis MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion
0201	Dominic Ellis MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0202	Dominic Ellis MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion
FC01	Jared Kenlon Tu 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PAC 3160 PAC 1108	 Lab

MUSC150 **Theory of Music I**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: Departmental audition and entrance examination. Restriction: Must be in one of the following programs (Music (Liberal Arts Program); Music (Jazz Performance Option); Music (Winds & Percussions Performance Option); Music (Voice Performance Option); Music Composition; Music (Professional Program); Music (Piano Performance Option); Music Performance-Winds and Percussion; Music Theory and Composition; Music Performance-Piano; Music Performance-Jazz Studies; Music Performance-Voice; Music Performance-Strings; Music (Strings Performance Option)).

A study of basic concepts and skills in tonal melody and harmony through analysis and composition.

0101	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2160	 Lab
0102	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2164	 Lab
0201	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2168	 Lab
0202	Richard Layton MWF 9:00am - 9:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2168	 Lab
0301	Quinn Dizon MWF 10:00am - 10:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2164	 Lab
FC01	Michael Oberhauser MWTh 6:00pm - 7:15pm *Restricted to Freshman Connection.*	Seats (Total: 16) PAC 3168	

MUSC202 **Intermediate Class Piano I**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC103; or must have equivalent piano training.

Advanced keyboard techniques. Continuation of skills introduced in MUSC103. Transposition, modulation and sight reading; methods of teaching functional piano.

Only for voice and instrumental principals with limited piano experience.

0101	Jungyeon Yim MWF 9:00am - 9:50am	Seats (Total: 15) PAC 1123	

MUSC205 **History of Popular Music, 1950-Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

0101	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0102	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0103	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0104	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0105	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0106	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0107	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0108	Richard King MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion

0109	Richard King MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0110	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0111	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0112	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
FC01	Nicole Powlison MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PLS 1119	

MUSC210 **The Impact of Music on Life**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET210 or MUSC210. Formerly: MUET210.

Music as a part of culture. Materials drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on the study of music.

0101	Fernando Rios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0102	Fernando Rios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 1809	Discussion
0103	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 1809	Discussion

0104	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0105	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0106	Fernando Rios MW 1:00pm - 1:50pm F 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0107	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0108	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0109	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0110	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0111	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0112	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion

MUSC215 **World Popular Musics and Identity**

Credits: 3 | Grading Method: Regular, Audit | CORE: HA, D | General Education: DSHU, DVUP

Credit only granted for: MUET200 or MUSC215. Formerly: MUET200.

Focus on popular musics in different cultures with an emphasis on cross-cultural comparisons and analysis of how musics and identity intersect.

0101	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0102	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0103	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 EDU 2101	Discussion
0104	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion
0105	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion
0106	Laura Schnitker MW 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 KNI 1103	Discussion
0107	Laura Schnitker MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) SKN 0200 BPS 1236	Discussion
0108	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SKN 0200 BPS 1236	Discussion
0109	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 BPS 1236	Discussion

MUSC220 Selected Musical Cultures of the World

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET220 or MUSC220. Formerly: MUET220.

A survey of selected musical cultures of the world, such as India, Japan, China, Indonesia, West Africa, Eastern Europe and the Near East.

0101	Siv Lie MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0102	Siv Lie MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0103	Siv Lie MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0104	Siv Lie MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
0105	Siv Lie MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
0106	Siv Lie MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion

MUSC227 **Vocal Diction: German**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Augmentation of private study. Phonetics and diction for singers of German vocal literature.

0101	Diba Alvi TuTh 11:00am - 11:50am	Seats (Total: 15) PAC 3164	

MUSC229A **Ensemble; Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Jose-Luis Novo	Seats (Total: 70)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC229D **Ensemble; Wind Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC229E **Ensemble; Wind Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 75)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC229F **Ensemble; Marching Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition.

0101	Elijah Osterloh, Nathaniel Reynolds, Craig Potter, Allison Satterwhite MWF 3:00pm - 5:00pm	Seats (Total: 300) PAC 2540	 Lab

MUSC229G **Ensemble; Marching Band Repertoire**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Elijah Osterloh, Craig Potter, Nathaniel Reynolds, Allison Satterwhite Tu 7:00pm - 9:00pm	Seats (Total: 300) PAC 2540	 Lab

MUSC229I **Ensemble; Marching Band Auxiliary**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Elijah Osterloh, Craig Potter, Nathaniel Reynolds, Allison Satterwhite TuTh 6:30pm - 8:30pm	Seats (Total: 50) PAC 2540	 Lab

MUSC229J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala MW 5:30pm - 7:15pm	Seats (Total: 25) PAC 1230	 Lab
0201	Christopher Vadala MW 1:00pm - 2:20pm	Seats (Total: 30) PAC 1230	 Lab
0301	Christopher Vadala M 7:30pm - 9:30pm	Seats (Total: 30) PAC 1230	 Lab

MUSC229P **Ensemble; Pep Band**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Permission of Instructor.

0101	Elijah Osterloh Contact instructor or department for details.	Seats (Total: 60)

MUSC229R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Tiffany Lu MW 3:00pm - 5:00pm	Seats (Total: 50) PAC 1230	 Lab

MUSC229U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter W 7:30pm - 9:30pm	Seats (Total: 100) PAC 2540	 Lab

MUSC229Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel Contact instructor or department for details.	Seats (Total: 10)
0201	Thomas Baldwin Contact instructor or department for details.	Seats (Total: 10)
0301	Nicholas Vassar Contact instructor or department for details.	Seats (Total: 10)
0401	Leo Rayon Contact instructor or department for details.	Seats (Total: 10)

MUSC248D **Selected Topics in Music; Rapping It Up: An Analysis of Hip Hop Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Designed to allow a student of theory or music history to pursue a specialized topic or project under the supervision of a faculty member.

0101	Richard King Th 12:30pm - 1:45pm	Seats (Total: 12) PAC 3160

MUSC250 **Advanced Theory of Music I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MUSC151.

A continuation of MUSC 151, with further study of chromatic and modulatory techniques of the nineteenth century. Emphasis on sight singing, ear training, analysis and compositional skills.

0101	David Froom TuTh 8:00am - 9:15am MW 8:00am - 8:50am	Seats (Total: 6) PAC 3160 PAC 2164	 Lab
0102	David Froom TuTh 8:00am - 9:15am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3160 PAC 2164	 Lab
0201	Robert Gibson TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3168 PAC 3164	 Lab
0202	Robert Gibson TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3168 PAC 3168	 Lab
0301	Mark Wilson TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 3164	 Lab
0302	Mark Wilson TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 3168	 Lab

MUSC269R **Special Topics in Study Abroad II; From Elvis to Rap: 50 Years of History As Seen Through Rock Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC310 **Music History I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC151; and permission of ARHU-School of Music department. Credit only granted for: MUSC310 or MUSC331. Formerly: MUSC331.

A historical study of Western music from Antiquity to 1600.

0101	Patrick Warfield MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) PAC 2201 PAC 2160	 Discussion
0102	Patrick Warfield MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) PAC 2201 PAC 2160	 Discussion
0103	Patrick Warfield MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 25) PAC 2201 PAC 2160	 Discussion

MUSC328 **Introduction to Chamber Music for Pianists**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A course to introduce the piano major to chamber music at a moderately difficult level. Class instruction will center on actual rehearsal and coaching geared toward performance, and will be supplemented by further experience in applied instrumental studios.

Prerequisite: MUSC128.

0101	Elizabeth Brown Tu 4:00pm - 6:00pm	Seats (Total: 10) PAC 2126	

MUSC329A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Edward Maclary TuTh 4:30pm - 6:00pm	Seats (Total: 75) PAC 2201	 Lab

MUSC329B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Edward Maclary	Seats (Total: 50)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC329E **Ensemble; Gospel Choir**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Anne Carswell	Seats (Total: 60)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC329M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Edward Maclary	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab

MUSC329O **Ensemble; Opera Chorus**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Edward Maclary	Seats (Total: 30)	
	F 4:00pm - 6:00pm	PAC 2170	Lab

MUSC329W **Ensemble; Treble Choir**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Kathryn Hylton MWF 12:00pm - 12:50pm	Seats (Total: 60) PAC 2201	Lab

MUSC330 **Music History III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC320; and permission of ARHU-School of Music department.

A historical study of Western music from 1800 to present.

0101	William Robin MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 15) PAC 2200 PAC 3160	Discussion
0102	William Robin MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 15) PAC 2200 PAC 3160	Discussion
0103	William Robin MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 15) PAC 2200 PAC 3160	Discussion

MUSC369M **Special Topics in Study Abroad III; Masterpieces of Italian Opera**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC379 **Opera Workshop**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail

Open to music and non-music majors (by audition). Operatic production and performance, performance techniques and coaching, stage direction, set design, costume design and make-up. Repertory will include smaller operatic works, excerpts or scenes.

0101	Andrea McGray	Seats (Total: 15)	
	MW 4:00pm - 6:00pm	PAC 2170	Lab

MUSC386 **Experiential Learning**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Music department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Credits: 3

Grading Method: Regular

Pre-professional field work in music.

0201	Eric Kutz	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Edward Maclary	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC389 **Music Internship Analysis**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Documentation and evaluation of field work experience.

0101	Lori DeBoy	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Michael Hewitt	Seats (Total: 1)
	Contact instructor or department for details.	

MUSC400S **Music Pedagogy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSP315; and permission of ARHU-School of Music department.

Conference course. A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.

Contact department for information to register for this course.

MUSC428 **Repertoire Coaching of Vocal or Chamber Music**

(Perm req)

Credits: 2 Grading Method: Regular

A course for piano students who wish to go further than the work offered in MUSC128, MUSC228 and MUSC328 by becoming specialists in the areas of vocal coaching or chamber music coaching. Elements of pedagogy, conducting and responsible artistic decision-making for the entire musical production.

0101	Rita Sloan, Irina Muresanu	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC438M **Area Studies in Ethnomusicology; Sounds of the Mediterranean**

Credits: 3 Grading Method: Regular

Advanced study of musics in selected parts of the world.

0101	Siv Lie	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	PAC 3110A

MUSC443 **Solo Vocal Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC330 and MUSC331; or students who have taken courses with comparable content may contact the department.

The study of solo vocal literature from the Baroque Cantata to the Art Song of the present. The Lied, Melodie, vocal chamber music and the orchestral song are examined.

0101	Diba Alvi	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PAC 2201

MUSC444 **Wind and Percussion Literature**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Corequisite: MUSP420 or MUSP419.

Recital program notes and written projects in wind or percussion literature.

Contact department for information to register for this course.

MUSC446 **String Literature**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSP316; and permission of ARHU-School of Music department.

Recital program notes and written projects in string literature.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MUSC448A **Selected Topics in Music; Accompanying Practicum**

(Perm req)

Credits: 1

Grading Method: Regular

Prerequisite: MUSC228, MUSC328, and permission of instructor. Intended for Music Majors in Piano.

0101	Mayron Tsong	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC448E **Selected Topics in Music; The Entrepreneurial Musician**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Lee Hinkle	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 3160

MUSC448F **Selected Topics in Music; Music and Film in Cross-Cultural Perspectives**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	John Witzleben M 3:30pm - 6:00pm	Seats (Total: 4) PAC 3110A

MUSC448J **Selected Topics in Music; Selected Topics in Music: Brahms**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Kenneth Slowik Tu 7:00pm - 9:30pm	Seats (Total: 20) PAC 2168

MUSC448K **Selected Topics in Music; Keyboard Skills for Vocalists**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course is for graduate vocal majors only.

0101	Rita Sloan Contact instructor or department for details.	Seats (Total: 10)

MUSC448W **Selected Topics in Music; Instrumental Pedagogy**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC450 **Musical Form**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251.

A study of the principles of organization in music with emphasis on eighteenth and nineteenth century European music. Reading and analysis of scores exemplifying the musical forms.

0101	Daniel Zimmerman TuTh 2:00pm - 3:15pm	Seats (Total: 25) PAC 2164

MUSC451 **Analysis of Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC450; or permission of instructor.

A course in the analysis of music. Discussion of individual works, with emphasis on their unique characteristics and on the relation of analysis to performance.

0101	Thomas DeLio	Seats (Total: 12)
	W 5:30pm - 8:00pm	PAC 2164

MUSC453 **Jazz Improvisation I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department. Credit only granted for: MUSC345 or MUSC453. Formerly: MUSC345.

Jazz theory, notational conventions, improvisation techniques, reading and analysis of music, and performance in small combo format.

0101	Nicholas Vassar	Seats (Total: 8)
	M 7:15pm - 9:50pm	PAC 1208

MUSC455 **Theory of Jazz**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC250; or permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing and articulation, notation, and introductory arranging concepts such as orchestration and form.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC469D **Orchestral Excerpts for String Players; Viola**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Katherine Murdock	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC469E **Orchestral Excerpts for String Players; Cello**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Eric Kutz	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC469F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC469V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC490 **Conducting**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC251.

Vocal and instrumental baton techniques.

0101	Edward Maclary	Seats (Total: 13)
	MWF 11:00am - 11:50am	PAC 2201

0201	Kieun Kim	Seats (Total: 13)
	MWF 1:00pm - 1:50pm	PAC 2201

MUSC492 **Keyboard Music I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

The history and literature of harpsichord and solo piano music from its beginning to the romantic period. Emphasis is placed on those segments of repertory which are encountered in performance and teaching situations at the present time.

0101	Bradford Gowen	Seats (Total: 13)
	MW 11:00am - 12:15pm	PAC 2160

MUSC499 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC550 **Theory of Music Graduate Review**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department.

Music theory review for graduate students:aural training, counterpoint, basic diatonic harmony, chromatic harmony, and analysis of complete works.

0101	Robert Gibson	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 2160

MUSC601 **Advanced English Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic, oratorio and song literature in English: stress patterns, linkage, stressed and non stressed vowels, dipthongs, placement of consonants and vowels, and communication of text with emphasis on current performance practices. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Linda Mabbs	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 2170

MUSC604 **Advanced French Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic and song literature in French: phoneticization, formation and singing of the vowel-sounds, semi-consonants, and consonants; the liaison; legato singing in French; the hiatus, mute and aspirate 'h'; stress and word rhythm. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Gran Wilson	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 2164

MUSC605 **Opera Repertory I**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUSC602; or permission of instructor. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Advanced vocal coaching of selections from the Italian, French, German, and English opera repertory: musical accuracy; language facility; diction clarity; and dramatic interpretation.

0101	Craig Kier	Seats (Total: 10)
	Th 10:30am - 12:00pm	PAC 1218

MUSC608 **Chamber Music Repertory; Chamber Music Repertoire**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Prerequisite: graduate standing as a major in performance. A study, through performance, of diversified chamber music for standard media.

Contact department for information to register for this course.

MUSC609 **Piano Chamber Music Practicum and Analysis**

(Perm req)

Credits: 2 Grading Method: Regular

Study of repertoire written for piano in duos or with several instruments, to develop an accompanists advanced performance skills in listening, balance, nuance in dynamics, harmonic motion and phrasing.

0101	Rita Sloan	Seats (Total: 10)	
	Contact instructor or department for details.		
0201	Rita Sloan, Irina Muresanu	Seats (Total: 10)	
	Contact instructor or department for details.		

MUSC611 **Opera Techniques I**

Credits: 2 Grading Method: Regular, Audit

Corequisite: MUSC601. Restriction: Permission of director of opera; and must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles and techniques to operatic repertoire.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC613 **Opera Techniques III**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Minimum grade of B- in MUSC612; and permission of Director of Opera required. Corequisite: MUSC603 and MUSC605. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Continuation of MUSC 612. Techniques for opera performance: Scene Study III; Movement III; and Shakespeare.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC629A **Ensemble; Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Jose-Luis Novo	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC629C **Ensemble; Wind Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Michael Votta	Seats (Total: 20)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC629F **Ensemble; Marching Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Elijah Osterloh	Seats (Total: 175)	
	MWF 3:00pm - 5:00pm	PAC 2540	Lab

MUSC629G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	I Suadin	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC629H **Ensemble; Harp**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sarah Fuller	Seats (Total: 1)	
	TuTh 11:00am - 12:15pm	Location: TBA	Lab

MUSC629J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala MW 5:30pm - 7:15pm	Seats (Total: 20) PAC 1230	Lab
0201	Christopher Vadala MW 1:00pm - 2:20pm	Seats (Total: 10) PAC 1230	Lab
0301	Christopher Vadala M 7:30pm - 9:30pm	Seats (Total: 10) PAC 1230	Lab

MUSC629K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto Tu 5:30pm - 7:00pm	Seats (Total: 2) PAC 3160	Lab

MUSC629L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto Tu 7:00pm - 8:30pm	Seats (Total: 4) PAC 3160	Lab

MUSC629P **Ensemble; Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Lee Hinkle	Seats (Total: 5)	
	M 5:00pm - 7:30pm	PAC 2540	Lab
	W 5:15pm - 7:15pm	PAC 2540	Lab
0201	Lee Hinkle	Seats (Total: 5)	
	Contact instructor or department for details.		

MUSC629Q **Ensemble; Korean Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sebastian Wang	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 2170	

MUSC629R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Tiffany Lu	Seats (Total: 10)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC629U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter	Seats (Total: 10)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC629W **Ensemble; Wind Orchestra**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 30)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC629Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Thomas Baldwin	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Nicholas Vassar	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Leo Rayon	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC632 **The Anthropology of Music**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUET650 or MUSC632. Formerly: MUET650.

Explores how leading theoretical paradigms in socio-cultural anthropology have been incorporated into and shaped ethnomusicological research.

0101	Fernando Rios	Seats (Total: 12)
	W 3:30pm - 6:00pm	PAC 3110A

MUSC639J **Seminar in Music; Seminar in Music: Brahms**

Credits: 3 Grading Method: Regular, Audit

The work of one major composer (Bach, Beethoven, etc.) will be studied.

0101	Kenneth Slowik Tu 7:00pm - 9:30pm	Seats (Total: 20) PAC 2168

MUSC646 **Introduction to Musicology**

Credits: 3 Grading Method: Regular

Prerequisite: Graduate student standing in in the School of Music. Credit only granted for: MUSC648 or MUSC646.

An introduction to the basics of musicological research, including sources, methodologies, and techniques, as well as the fundamentals of both academic and non-academic writing.

0101	Olga Haldey TuTh 11:00am - 12:15pm	Seats (Total: 10) PAC 3110A

MUSC648 **Seminar in Music Research; Seminar in Music Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to graduate study in the history and literature of music. Bibliography and methodology of systematic and historical musicology.

0101	Paul Covey Tu 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C
0201	Paul Covey M 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C
0301	Paul Covey TuTh 9:30am - 10:45am	Seats (Total: 15) PAC 2515C
0401	Eric Hermann Th 7:00pm - 9:30pm	Seats (Total: 15) PAC 2515C

MUSC649A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC649B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC649E **Ensemble; Ensemble: Gospel Choir**

Credits: 1 Grading Method: Regular

0101	Anne Carswell	Seats (Total: 10)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC649M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

0101	Kieun Kim	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab

MUSC649O **Ensemble; Opera Chorus**

(Perm req)

Credits: 1 Grading Method: Regular

0101	Edward Maclary	Seats (Total: 15)	
	F 4:00pm - 6:00pm	PAC 2170	Lab

MUSC649W **Ensemble; Treble Choir**

Credits: 1 Grading Method: Regular

0101	Kathryn Hylton	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 2201	Lab

MUSC651 **The Theories of Heinrich Schenker**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC450; or permission of ARHU-School of Music department.

The analytical methods of Heinrich Schenker with application of those theories to musical literature from the Baroque, Classical and Romantic periods.

0101	Thomas DeLio	Seats (Total: 10)
	W 2:00pm - 4:30pm	PAC 2164

MUSC655 **Theory of Jazz**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC655 ir MUSC699J. Formerly: MUSC699J.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing, articulation, notation and orchestration.

0101	Timothy Powell	Seats (Total: 4)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC659A **Seminar in Repertoire and Pedagogy**

(Perm req)

Credits: 2-3 Grading Method: Regular

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Edward Maclary	Seats (Total: 6)
	MW 10:00am - 10:50am	PAC 3160

MUSC659C **Seminar in Repertoire and Pedagogy; Wind Repertoire and Pedagogy**

(Perm req)

Credits: 2-3 Grading Method: Regular, Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Michael Votta	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC669D **Orchestral Excerpts for String Players; Viola**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Katherine Murdock	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC669E **Orchestral Excerpts for String Players; Cello**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Eric Kutz	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC669F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC669V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC670 **Advanced Analytical Techniques I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MUSC451; or permission of ARHU-School of Music department.

Analysis of representative masterpieces of the eighteenth and early nineteenth centuries.

0101	James Fry	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	PAC 3160

MUSC679F **Seminar in Ethnomusicology; Music and Film in Cross-Cultural Perspectives**

(Perm req)

Credits: 3 Grading Method: Regular

Seminar topics address current issues, including gender, the social economy of music, ethnography of performance, etc.

0101	John Witzleben	Seats (Total: 8)
	M 3:30pm - 6:00pm	PAC 3110A

MUSC699 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC699D **Selected Topics in Music; Diction for Pianist**

Credits: 2 Grading Method: Regular, Audit

0101	Robert McReynolds	Seats (Total: 8)
	Contact instructor or department for details.	

MUSC699E **Selected Topics in Music; The Entrepreneurial Musician**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Lee Hinkle	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PAC 3160

MUSC699F **Selected Topics in Music; Musical Movement and Music Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Dora Hanninen	Seats (Total: 10)
	F 11:00am - 1:30pm	PAC 3110A

MUSC699L **Selected Topics in Music; Translating Music(ally): From the Page to the Stage and Screen**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Olga Haldey W 6:30pm - 9:00pm	Seats (Total: 15) PAC 3110A

MUSC699O **Selected Topics in Music; 17th and 18th Century Opera Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Richard King Th 3:30pm - 6:00pm	Seats (Total: 15) PAC 3110A

MUSC699W **Selected Topics in Music; Instrumental Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC757 **Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Music department.

Advanced musicianship skills necessary for conductors.

0101	Michael Votta Tu 12:30pm - 1:30pm W 1:00pm - 1:50pm	Seats (Total: 5) PAC 2126 PAC 2126

MUSC758 **Advanced Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Continuation of MUSC757, advanced aural skills necessary for conductors.

0101	Michael Votta W 1:00pm - 2:15pm	Seats (Total: 5) PAC 2126

MUSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MUSC800P **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Grace Bottelier	Seats (Total: 15)	
	W 2:30pm - 5:00pm	PAC 2126	

MUSC800V **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Martha Randall	Seats (Total: 15)	
	W 3:00pm - 5:30pm	PAC 3164	Lab

MUSC800W **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Sarah Frisof Contact instructor or department for details.	Seats (Total: 10)
0201	Mark Hill Contact instructor or department for details.	Seats (Total: 10)
0301	Robert DiLutis Contact instructor or department for details.	Seats (Total: 10)
0401	Erich Heckscher Contact instructor or department for details.	Seats (Total: 10)
0501	Timothy Powell Contact instructor or department for details.	Seats (Total: 10)
0601	Gregory Miller Contact instructor or department for details.	Seats (Total: 10)
0701	Paul Gekker Contact instructor or department for details.	Seats (Total: 10)
0801	Matthew Guilford Contact instructor or department for details.	Seats (Total: 10)
0901	David Fedderly Contact instructor or department for details.	Seats (Total: 10)
1001	Paul Kellner Contact instructor or department for details.	Seats (Total: 10)
1101	Lee Hinkle Contact instructor or department for details.	Seats (Total: 10)

MUSC801W **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

Contact department for information to register for this course.

MUSC802A **Advanced Seminar in Music Pedagogy III**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC801. Restriction: Permission of ARHU-School of Music department.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument.

0101	Robert McReynolds	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC811 **Doctoral Opera Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC611 or MUSC811.

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles, techniques to operat e repertoire, and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC813 **Doctoral Opera Techniques III**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: MUSC812; and permission of ARHU-School of Music department. Credit only granted for: MUSC613 and MUSC813.

Continuation of MUSC812. Techniques for opera performance: Scene Study III; Movement III; Acting III Shakespeare; Dance I; Stage Combat II; Stage Combat II; and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC830S **Doctoral Seminar in Music Literature**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Kenneth Slowik M 9:00am - 12:00pm	Seats (Total: 15) PAC 2126

MUSC830W **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Aaron Goldman Contact instructor or department for details.	Seats (Total: 10)
0201	Mark Hill Contact instructor or department for details.	Seats (Total: 10)
0301	Robert DiLutis Contact instructor or department for details.	Seats (Total: 10)
0401	Erich Heckscher Contact instructor or department for details.	Seats (Total: 10)
0501	Timothy Powell Contact instructor or department for details.	Seats (Total: 10)
0601	Gregory Miller Contact instructor or department for details.	Seats (Total: 10)
0701	Paul Gekker Contact instructor or department for details.	Seats (Total: 10)
0801	Matthew Guilford Contact instructor or department for details.	Seats (Total: 10)
0901	David Fedderly Contact instructor or department for details.	Seats (Total: 10)

1001	Paul Kellner	Seats (Total: 10)
	Contact instructor or department for details.	
1101	Lee Hinkle	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC831W **Doctoral Seminar in Music Literature**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

Contact department for information to register for this course.

MUSC832A **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC831. Restriction: Permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music.

0101	Rita Sloan	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

NACS Neuroscience & Cognitive Science Fall 2017

NACS608 **Neuroscience and Cognitive Science Seminar**

Credits: 1 Grading Method: Regular

Special seminar topics in Neuroscience and Cognitive Science.

0101	Ricardo Araneda	Seats (Total: 20)
	F 10:15am - 11:15am	BRB 1103

NACS640 **Foundational Readings Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of instructor; and must be in Neurosciences and Cognitive Sciences (Doctoral) program. Credit only granted for: NACS640 or NACS728R. Formerly: NACS728R.

An introduction to the breadth of research in Neuroscience and Cognitive Science. Faculty will present papers to provide historical context and introduction to important issues in the fields of their research.

0101	J Carson Smith	Seats (Total: 12)
	Tu 9:30am - 11:30am	COL 0211

NACS641 **Introduction to Neurosciences**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Detailed examination of neurophysiology and sensorimotor systems.

0101	Jens Herberholz	Seats (Total: 15)
	MW 3:00pm - 4:45pm	BPS 0283

NACS643 **Computational Neuroscience**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: NACS641; and must have completed a course in calculus; and permission of instructor.

Provides a mathematical foundation in computational neuroscience.

0101	Daniel Butts	Seats (Total: 20)
	MW 12:00pm - 1:50pm	PLS 1180

NACS645 **Cognitive Science**

Credits: 4 Grading Method: Regular, Audit

Credit only granted for: NACS645 or NACS728Y. Formerly: NACS728Y.

A study of mental representations and computations. Issues examined include computation, representations, decisions, modularity, evolution, innateness, and reductionism.

0101	Robert Slevc, Yi Ting Huang	Seats (Total: 25)
	MW 1:00pm - 2:45pm	COL 0211

NACS728F **Selected Topics in Neuroscience and Cognitive Science; Introduction to Functional Magnetic Resonance Imaging**

Credits: 3 Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Luiz Pessoa	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	BPS 1232

NACS728J **Selected Topics in Neuroscience and Cognitive Science; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 2249

NACS798 **Master's Non-Thesis Research**

Credits: 1-3 Grading Method: Regular

Individual research course for NACS non-thesis MS degree

Contact department for information to register for this course.

NACS799 **Master's Thesis Research**

Credits: 1-3 Grading Method: Regular

Individualized research course for NACS thesis MS degree

Contact department for information to register for this course.

NACS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

NACS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Indivdual instruction course: contact department or instructor to obtai section number

Contact department for information to register for this course.

NAVY Navy Fall 2017

NAVY100 **Introduction to Naval Science**

Credits: 3 Grading Method: Regular

Introduction to the naval profession and concepts of sea power. Major topics explored are the mission, strategy, organization, and descriptions of the U.S. Navy and Marine Corps. Students will gain a basic understanding of warfighting capabilities, required leadership skills, training and education, and the duties and responsibilities of a U.S. Navy and Marine Corps Junior Officer. The student will learn Naval courtesy and customs, military justice, and nomenclature as well as the professional competencies required to become a naval officer.

0101	Adam Klimas	Seats (Total: 75)
	MW 8:00am - 9:15am	PLS 1130

NAVY108 **Naval Science Leadership Lab**

Credits: 1 Grading Method: Regular

Introduces the student to a variety of instructional sessions and/or activities that will develop the leadership component of the Naval ROTC program. The Naval Science leadership lab may include, but not be limited to, close-order drill, physical fitness training, ceremonial functions, Department of the Navy policy, guest lecturers, general military training (GMT), Anti-Terrorism Force Protection (ATFP), traffic safety, nutrition, stress management, prevention of sexual harassment, and operations security.

0101	Stew Wennersten	Seats (Total: 75)
	Th 7:00am - 7:50am	ARM 0135

NAVY200 **Leadership and Management**

Credits: 3 Grading Method: Regular

Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Introductory course designed to familiarize students with the theories, processes, and behaviors that enable effective leadership and managerial competence. Students will engage in analytical discussions, review leadership development and education, and Navy/Marine Corps-based case study discussions in order to develop their understanding of personal strengths, values and growth opportunities in the context of team, group and organizational leadership.

0101	Stew Wennersten	Seats (Total: 40)
	TuTh 8:00am - 9:15am	SYM 0200

NAVY300 **Naval Ship Systems I (Engineering)**

Credits: 3 Grading Method: Regular

Recommended: MATH140 and MATH141. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Introduces the student to a comprehensive fundamental understanding of United States naval engineering principles and systems. Topics include thermodynamics, incompressible fluid flow, electrical theory, hydraulics and pneumatics, power train components, fluid/lube oil systems, desalination, fundamentals of nuclear power, propulsion systems (internal combustion, gas turbines, and steam), electrical distribution, ship stability and control and damage control. Students will also examine case studies to apply and analyze course topics within naval ships systems contexts.

0101	Christopher Anderson	Seats (Total: 20)
	MW 8:00am - 9:15am	ARM 0120

NAVY400 **Naval Operations and Seamanship**

Credits: 3 Grading Method: Regular

Recommended: NAVY201. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.

Capstone course for senior NROTC Navy-option midshipmen in advanced navigation, communications, naval operations, and naval warfare. Students learn through simulation in a computer classroom known as the Maritime Skills Simulator (MSS), in addition to lectures, discussions, and qualitative and quantitative tests/examinations. Students will engage in discussions regarding the moral and ethical responsibilities or military leaders, as well as the essential attributes of character required for effective leadership.

0101	Michael Tenaglia	Seats (Total: 20)
	TuTh 8:00am - 9:15am	ARM 0120

NFSC Nutrition and Food Science Fall 2017

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

NFSC100 Elements of Nutrition

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

0101	Seong-Ho Lee MW 1:00pm - 1:50pm Th 8:30am - 9:20am	Seats (Total: 25) TYD 0130 ASY 3219	Discussion
0103	Seong-Ho Lee MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) TYD 0130 ASY 3211	Discussion
0104	Seong-Ho Lee MW 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 25) TYD 0130 SQH 1105	Discussion
0105	Seong-Ho Lee MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 ASY 3203	Discussion
0106	Seong-Ho Lee MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 EDU 3236	Discussion
0107	Seong-Ho Lee MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 25) TYD 0130 ASY 3215	Discussion
0108	Seong-Ho Lee MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 ASY 3219	Discussion

0109	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 JMZ 1224	Discussion
0111	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 12:30pm - 1:20pm *Recommended for NFSC majors only.*	Seats (Total: 25) TYD 0130 ASY 3219	Discussion
0112	Seong-Ho Lee MW 1:00pm - 1:50pm W 3:00pm - 3:50pm	Seats (Total: 25) TYD 0130 EDU 3233	Discussion
0113	Seong-Ho Lee MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 ASY 3215	Discussion
0114	Seong-Ho Lee MW 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
0116	Seong-Ho Lee MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 WDS 0104	Discussion
FC01	Shaik Rahaman, Seong-Ho Lee, Nadine Sahyoun MW 4:30pm - 5:20pm F 11:30am - 12:20pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) SYM 0200 ASY 3207	Discussion
FC02	Shaik Rahaman, Nadine Sahyoun, Seong-Ho Lee MW 4:30pm - 5:20pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) SYM 0200 ASY 3215	Discussion

NFSC100H **Elements of Nutrition**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

For general honors students only.

0101	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 3:00pm - 3:50pm	Seats (Total: 12) TYD 0130 JMZ 3122	 Discussion

NFSC112 **Food: Science and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Introduction to the realm of food science, food technology and food processing. An overview of the largest industry in the U.S. with emphasis on the science of food and the technology of food preservation from harvest through processing and packaging to distribution and consumer utilization.

0101	Abani Pradhan, Solmaz Alborzi MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 30) ARM 0131 SQH 1119	 Discussion
0102	Solmaz Alborzi, Abani Pradhan MW 10:00am - 10:50am Th 4:00pm - 4:50pm	Seats (Total: 30) ARM 0131 KEY 0100	 Discussion
0103	Solmaz Alborzi, Abani Pradhan MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 30) ARM 0131 KEY 0100	 Discussion
0104	Abani Pradhan, Solmaz Alborzi MW 10:00am - 10:50am F 3:00pm - 3:50pm	Seats (Total: 30) ARM 0131 KEY 0125	 Discussion
0105	Abani Pradhan, Solmaz Alborzi MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 30) ARM 0131 WDS 1114	 Discussion
0106	Abani Pradhan, Solmaz Alborzi MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 30) ARM 0131 WDS 1114	 Discussion

FC01	Solmaz Alborzi, Abani Pradhan MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) WDS 0104	

NFSC350 **Foodservice Operations**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: BSCI223 and BMGT364; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Dietetics program.

Introduction to management. Responsibilities in quantity food productio and purchasing in a foodservice operation. Laboratory experience in planning, preparation, and service of meals which meet the nutritional needs of the consumer.

0101	Margaret Udahogora, Ashley Lewis TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3108	 Lab
0102	Margaret Udahogora, Ashley Lewis TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3108	 Lab
0103	Margaret Udahogora, Ashley Lewis TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3401	 Lab
0104	Ashley Lewis, Margaret Udahogora TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) TYD 1101 MMH 3401	 Lab

NFSC380 **Methods of Nutritional Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: NFSC315 and BCHM461; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Food Science program.

Methods of assessing human nutritional status of populations and individuals. These methods include dietary, anthropometric, clinical evaluations and biochemical measurements.

0101	Margaret Udahogora MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab
0102	Margaret Udahogora MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab

NFSC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.

Contact department for information to register for this course.

NFSC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

1301	Qin Wang Contact instructor or department for details.	Seats (Total: 10)

NFSC399 **Special Problems in Food Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Designed for advanced undergraduates. Specific problems in food science will be assigned.

Contact department for information to register for this course.

NFSC421 **Food Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461.

Basic chemical and physical concepts are applied to the composition and properties of foods. Emphasis on the relationship of processing technology to the keeping quality, nutritional value, and acceptability of foods.

0101	Liangli Yu	Seats (Total: 60)	
	MW 12:30pm - 1:45pm	LEF 2166	

NFSC422 **Food Product Research and Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: CS | General Education: DSSP

Restriction: Senior standing; and must be in a major within AGNR-Nutrition and Food Science department; and permission of AGNR-Nutrition and Food Science department. Formerly: FDSC422.

A capstone course for FDSC majors. A study of the research and development of new food products. Application of food technology, engineering, safety and packaging are integrated by teams of students to develop a new food product from concept to pilot plant scale-up. Students will travel to nearby food processing plants on two to four Saturdays during the semester.

0101	Solmaz Alborzi	Seats (Total: 15)	
	W 2:00pm - 2:50pm	PLS 1162	
	F 1:00pm - 5:00pm	MMH 3401	Lab

NFSC423 **Food Chemistry Laboratory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: Must have completed or be concurrently enrolled in NFSC421.

Analysis of the major and minor constituents of food using chemical, physical and instrumental methods in concordance with current food industry and regulatory practices. Laboratory exercises coincide with lecture subjects in NFSC421.

0101	Liangli Yu	Seats (Total: 15)	
	W 8:30am - 9:20am	MMH 3419	
	W 9:30am - 12:20pm	MMH 3419	Lab

NFSC425 **International Nutrition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one course in basic nutrition.

Nutritional status of world population; consequences of malnutrition on health and mental development; and local, national, and international programs for nutritional improvement.

0101	Robert Jackson, Saira Khan TuTh 11:00am - 12:15pm	Seats (Total: 25) PLS 1115

NFSC440 **Advanced Human Nutrition**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: BCHM462, BSCI440, and NFSC100; and permission of AGNR-Nutrition and Food Science department.

A critical study of physiologic, molecular and metabolic influences on utilization of carbohydrates, lipids, proteins, vitamins, macro-and micro- minerals, and nonnutritive components of food. Interactions of these nutrients and food components will be examined relative to maintaining health.

Also offered as NFSC678R.

0101	David Lei TuTh 2:00pm - 3:40pm	Seats (Total: 75) PLS 1140

NFSC490 **Special Problems in Nutrition**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498 **Selected Topics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498F **Selected Topics; Current Topics in Nutrition and Chronic Disease**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman M 2:15pm - 5:00pm	Seats (Total: 20) MMH 3112

NFSC498T **Selected Topics; Advanced Food Processing and Safety**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Prerequisite: NFSC112, BSCI223 or equivalent, and NFSC421. Also offered as NFSC679T. Credit granted for NFSC679T or NFSC498T.

0101	Rohan Tikekar Tu 9:30am - 12:15pm	Seats (Total: 20) SKN 0101

NFSC620 **Diet and Cancer Prevention**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: NFSC440; or permission of instructor. Credit only granted for: NFSC620 or NFSC679D. Formerly: NFSC678D.

1. The nature of cancer and the relationship between dietary/nutritional factors and incidence of cancer 2. Basic concepts of general cancer biology with focus on effects of dietary components on genes and their encoded proteins, epigenetic changes and cell signaling 3. Effect of dietary factors in various types of cancer with respect to the benefit of intervention strategies for chemoprevention 4. Scientific knowledge, critical thinking, and the practical application of diet in cancer prevention.

0101	Seong-Ho Lee Tu 4:00pm - 6:45pm	Seats (Total: 15) MMH 3112

NFSC678A **Selected Topics in Nutrition**

Credits: 1-4 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Contact department for information to register for this course.

NFSC678F **Selected Topics in Nutrition; Current Topics in Nutrition and Chronic Disease**

Credits: 3 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman	Seats (Total: 20)
	M 2:15pm - 5:00pm	MMH 3112

NFSC678R **Selected Topics in Nutrition; Advanced Human Nutrition**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Also offered as NFSC440. Prerequisites: NFSC100, BCHM462, BSCI440, and permission of department.

0101	David Lei	Seats (Total: 75)
	TuTh 2:00pm - 3:40pm	PLS 1140

NFSC678V **Selected Topics in Nutrition; Research Design and Methods in Health Promotion and Nutrion Education**

Credits: 3 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

The major goals of this course are to help students understand fundamental behavioral, social models and theories used in the field of nutrition, and to address methodological issues in developing, implementing, and evaluating intervention programs, particularly in the context of nutrition education and behavior. The class topics include types of social and behavioral theories and models applied in the field of nutrition education and public health, conceptual framework building, methodological basics (conceptualizing and operationalizing measurements reliability and validity of scales, psychometric analysis including factor analysis, and issues in evaluating intervention programs.

0101	Hee-Jung Song	Seats (Total: 15)	
	Tu 2:30pm - 5:15pm	SKN 0101	

NFSC679R **Selected Topics in Food Science; Food Safety and Nutrition Risk Assessment**

Credits: 4 Grading Method: Regular

Individual or group study in an area of food science.

0101	Abani Pradhan	Seats (Total: 25)	
	MW 11:00am - 11:50am	KEY 0126	
	F 11:00am - 1:30pm	TYD 0117	Lab

NFSC679T **Selected Topics in Food Science; Advanced Food Processing and Safety**

Credits: 3 Grading Method: Regular

Individual or group study in an area of food science.

Prerequisite: NFSC112, BSCI223 or equivalent, and NFSC421. Also offered as NFSC498T. Credit granted for NFSC679T or NFSC498T.

0101	Rohan Tikekar	Seats (Total: 20)
	Tu 9:30am - 12:15pm	SKN 0101

NFSC688 **Seminar in Nutrition and Food Science**

Credits: 1-3 Grading Method: Regular, Audit

This is a seminar course presentedy by NFSC graduate students and invited speakers in the field of nutrition and food science.

0101	Nadine Sahyoun	Seats (Total: 25)
	W 12:00pm - 12:50pm	KEY 0126

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC735 **Food Toxicology**

Credits: 3 Grading Method: Regular, Audit

Recommended: BCHM462, BSCI440, or CHEM131. Also offered as: MIEH735. Credit only granted for: MIEH735 or NFSC735.

An introduction to basic concepts in toxicology in relation to toxic food contaminants and additives; both synthetic and naturally occurring. Focus on exposure routes, molecular targets and susceptible individuals. Also includes regulatory toxicology with respect food toxins.

0101	Robert Buchanan, Paul Turner	Seats (Total: 20)
	W 1:00pm - 3:45pm	TYD 2108

NFSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

Contact department for information to register for this course.

NFSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PEER311 **Peer Education Mental Health & Wellness**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH381 or PEER311. Formerly: HLTH 381. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding stress management, mental illness, appropriate on/off campus resources, stigma, body image, helping a friend in distress, and other issues related to mental health and wellness, including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Sarah Wilson	Seats (Total: 16)
	M 4:00pm - 5:00pm	JMZ 2206
	W 4:00pm - 6:00pm	JMZ 2206

PEER312 **Peer Education: Preventing Power-Based Violence**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH382 or PEER312. Formerly: HLTH382. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about the complex dynamics surrounding issues of power-based personal violence. This includes: sexual assault, relationship violence, stalking, bystander intervention, consent, and rape culture. Students fully learn the on and off-campus resources for victim/survivors. Programming is done in classroom settings, residence halls, Greek life spaces, and at tables during special events.

0101	LaVonne Whitehead	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 3120
	W 4:00pm - 6:00pm	JMZ 3120

PEER313 **Peer Education: Alcohol and Other Drugs Education**

(Perm req) Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH380 or PEER313. Formerly: HLTH380. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding substance use, including (but not limited to) alcohol, marijuana, and various other drugs, providing information about campus services for those with substance use related issues, and educating students about other topics related to harm reduction strategies and promoting students' overall well-being, including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Madeleine Moore	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 1117
	W 4:00pm - 6:00pm	JMZ 1117

PEER314 Peer Education: Sexual Health & Wellness

(Perm req) Credits: 3 Grading Method: Regular General Education: DVCC

Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH383 or PEER314. Formerly: HLTH383. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.

Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about issues surrounding Sexually Transmitted Infections, sexual health testing and screening, birth control options, healthy sexuality, consent and communication, condoms and other barrier protection, campus sexual health services, and other issues related to sexual well being including bystander intervention. Programming is done in classroom settings, residence halls, and at tables during special events.

0101	Jenna Messman	Seats (Total: 15)
	M 4:00pm - 5:00pm	JMZ 2117
	W 4:00pm - 6:00pm	JMZ 2117

PEER318 CARE Peer Advocacy

(Perm req) Credits: 3 Grading Method: Regular

Designed to train students to become Peer Advocates who are responsible for providing crisis and short-term support services for victims of sexual assault, relationship violence, stalking, sexual harassment and child abuse.Students will be meeting with clients and providing emotional support and resources (both on and off campus). During weekly classes, students will be trained in trauma-informed crisis intervention procedures that will not only help them assist clients during in- person sessions but will help them support clients via the crisis cell. Students will be expected to maintain the crisis cell (on a shared basis)throughout the semester as well as maintain 10 hours per week in the CARE office. In addition to maintaining the crisis cell and office hours, during the spring semester students will be tasked with working as a team in planning and executing a Take Back the Night event.

0101	Christina Jay	Seats (Total: 15)
	W 5:00pm - 6:30pm Contact instructor or department for details.	UHC 0170

PEER319 **CARE to Stop Violence Outreach Peer Program**

(Perm req)

Credits: 3 Grading Method: Regular

A two semester, 6-credit course designed to train students in the knowledge, values and skills to build professional relationships and become leaders in community development related to the social justice issue of sexual misconduct with emphasis on the college campus environment.

Contact department for information to register for this course.

PEER338 **PEER LEADERSHIP AND EDUCATION**

Credits: 3 Grading Method: Regular

PEER 338 is an interdisciplinary independent study designed to enhance the scope of learning around UHC peer education topics and train students to serve as leaders for those enrolled in first year peer courses, PEER31X and PEER32X. Second year peers are trained to facilitate intersectional and advanced health education dialogue, as well as serve in leadership roles for the course in which they were previously enrolled, PEER31X and PEER32X. Additionally, Peer Leader responsibilities include creating and implementing campus wide events to promote learning around the intersections between UHC peer education group topics (power-based violence, sexual health, alcohol and other drugs, stress and mental health). Peer Leaders will have different responsibilities based on the programmatic needs and goals of the semester.

Prerequisite: Peer Leaders must have a minimum GPA of 2.5. Leaders are required to have completed Peer Education and Advanced Peer Education courses (PEER311/321; PEER312/322; PEER313/323; PEER314/324) with a minimum grade of B-. Repeatable up to 6 credits.

0101	LaVonne Whitehead, Madeleine Moore, Jenna Messman, Sarah Wilson	Seats (Total: 20)
	M 5:00pm - 6:30pm	JMZ 0120
	W 5:00pm - 6:00pm	JMZ 0120

PERS Persian Fall 2017

PERS101 **Elementary Persian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be native/fluent speaker of Persian.

Introduction to the alphabet, pronunciation patterns, greetings, basic structures, and other fundamentals, with emphasis on oral and aural skills.

0101	Susan Moinfar	Seats (Total: 18)	
	MWF 10:00am - 10:50am	HJP 2114	
	Tu 10:00am - 10:50am	HJP 2114	
	Th 10:00am - 10:50am	HJP 2114	Lab

PERS211 **Intermediate Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS102; or students who have taken courses with comparable content may contact the department. Recommended: Concurrent enrollment in PERS201.

Development of aural and oral skills in Persian. Various genres and registers of speech. Special focus on contemporary daily life, with use of up-to-date media sources.

0101	Susan Moinfar	Seats (Total: 15)	
	MWF 11:00am - 11:50am	HJP 2114	
	Tu 11:00am - 11:50am	HJP 2114	Lab

PERS251 **Modern Iran**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS

General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

Also offered as HIST219X. Credit granted for PERS251 or HIST219X.

0101	Ida Meftahi	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	JMZ 2122	

PERS283 **Iranian Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Introduction to Iranian cinema, society, and culture. Taught in English

Also offered as FILM298B. Credit granted for PERS283 or FILM283.

0101	Ida Meftahi MW 3:30pm - 4:45pm	Seats (Total: 30) KEY 0121

PERS301 **Advanced Persian I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS202; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be native/fluent speaker of Persian.

Development of speaking, reading, writing, listening and cultural knowledge through wide variety of activities, especially reading.

0101	Ali Abasi MWF 1:00pm - 1:50pm	Seats (Total: 15) HJP 2114

PERS371 **Introduction to Persian Literature in Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHU

Introduction to classical and modern canons of Persian literature in historical, esthetic, and social context. Taught in English.

0101	Matthew Miller TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 0205

PERS398Q **Special Topics in Persian Studies; Social Issues in Contemporary Iran**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Permission required. Taught in Persian.

0101	Ali Abasi F 9:00am - 11:45am	Seats (Total: 10) HJP 3117

PERS398R **Special Topics in Persian Studies; Persian for Professional Purposes**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 10)
	TuTh 9:00am - 10:30am	HJP 3117

PERS399 **Directed Study in Persian**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Contact department for information to register for this course.

PERS399C **Directed Study in Persian; Living/Learning in Persian House**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Prerequisite: Permission of departmetn. Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 5)
	Contact instructor or department for details.	

PERS399D **Directed Study in Persian; Capstone Research Project**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Permission required. Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 10)
	M 9:00am - 11:45am	HJP 3117

PERS498 **Special Topics in Persian Studies**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

Contact department for information to register for this course.

PERS498N **Special Topics in Persian Studies; Masterpieces of Persian Literature Part 1**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

0101	Mohammad Bazargan	Seats (Total: 15)
	Tu 6:00pm - 8:30pm	JMZ 2122

PERS498Q **Special Topics in Persian Studies; Persian Literature in Society**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

Restriction: Permission of Department.

0101	Mohammad Bazargan	Seats (Total: 3)
	W 9:00am - 12:00pm	HJP 3117

PERS689 **Special Topics in Persian Studies**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for permission to register.

Contact department for information to register for this course.

PERS689B **Special Topics in Persian Studies**

Credits: 3

Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for information to register for this course.

PHIL Philosophy Fall 2017

Click here for fuller PHIL course descriptions.

PHIL100 **Introduction to Philosophy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

0101	Dan Moller TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) MMH 1400 KEY 0103	Discussion
0102	Dan Moller TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 KEY 0100	Discussion
0103	Dan Moller TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 KEY 0103	Discussion
0104	Dan Moller TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) MMH 1400 HBK 0105	Discussion
0105	Dan Moller TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 HBK 0103	Discussion
0106	Dan Moller TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 HBK 0103	Discussion
0201	Andrew Knoll MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TWS 1100 SYM 0209	Discussion
0202	Andrew Knoll MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TWS 1100 HBK 0105	Discussion

0203	Andrew Knoll MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TWS 1100 HBK 1108	Discussion
FC01	Dan Moller TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) KEY 0126	

PHIL140 **Contemporary Moral Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

0101	Heather Adair TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0411	Discussion
0102	Heather Adair TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 KEY 0103	Discussion
0103	Heather Adair TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 EGR 3102	Discussion
0104	Heather Adair TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0103	Discussion
0105	Heather Adair TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 EDU 3233	Discussion
0106	Heather Adair TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) SKN 0200 JMZ 0208	Discussion

0201	Andrew Knoll MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 JMZ 0208	Discussion
0202	Andrew Knoll MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) JMZ 0220 KEY 1117	Discussion
0203	Andrew Knoll MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 SKN 0104	Discussion
0204	Andrew Knoll MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 JMZ 0205	Discussion
0205	Andrew Knoll MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) JMZ 0220 KEY 0116	Discussion
0206	Andrew Knoll MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 ASY 3221	Discussion
FC01	Andrew Knoll MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) PLS 1113	
FC02	Sungwon Woo TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) PHY 4221	
FC03	Charles Barclay TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) PHY 4221	
FC04	Kalewold Kalewold MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) HBK 0115	

FC05	Julius Schoenherr MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) PLS 1113	

PHIL170 **Introduction to Logic**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSAR

Development of analytical reasoning skills through study of formal logics, reasoning systems, and fallacious inference patterns.

0101	Eric Pacuit MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 25) ESJ 0202 JMZ 0103	Discussion
0102	Eric Pacuit MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) ESJ 0202 JMZ 0125	Discussion
0103	Eric Pacuit MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0202 EDU 1107	Discussion
0104	Eric Pacuit MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 0202 SKN 0104	Discussion
0105	Eric Pacuit MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 0202 KEY 0102	Discussion
0106	Eric Pacuit MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ESJ 0202 CSI 2118	Discussion
0107	Eric Pacuit MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ESJ 0202 EGR 3114	Discussion

0108	Eric Pacuit MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ESJ 0202 LEF 2166	Discussion
0109	Eric Pacuit MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ESJ 0202 KEY 0116	Discussion

PHIL209A **Philosophical Issues; Bioethics: Regulating Right and Wrong**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DSSP

An examination of selected philosophical issues of general interest.

0101	Samuel Kerstein TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) TWS 0310 SQH 2120	Discussion
0102	Samuel Kerstein TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 25) TWS 0310 EDU 3236	Discussion
0103	Samuel Kerstein TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 25) TWS 0310 ARC 1103	Discussion

PHIL209E **Philosophical Issues; Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

An examination of selected philosophical issues of general interest.

This course examines the nature of happiness and its role in the good human life through the lens of both philosophy and psychology.

0101	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0310 SQH 1107	Discussion

0102	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) TWS 0310 TYD 2110	Discussion
0103	Rachel Singpurwalla TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TWS 0310 EDU 3236	Discussion

PHIL209I **Philosophical Issues: Spooky Action at a Distance: Where Physics meets Metaphysics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, SCIS

Einstein believed physics should represent a "reality in space and time,free from spooky action at a distance" and worried that quantum theory failed that test. This course will investigate whether Einstein was right.

0101	Allen Stairs MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 2109 SYM 0209	Discussion
0102	Allen Stairs MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 2109 PLS 1113	Discussion
0103	Allen Stairs MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TYD 2109 PLS 1113	Discussion
FCH1	Allen Stairs M 3:00pm - 4:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 35) WDS 1114 ONLINE	

PHIL209N **Know Thyself: Wisdom Through Cognitive Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHS, DSHU, SCIS

How do we improve our decision-making and overcome our weaknesses and biases? Theory and data from cognitive science regarding these shortcomings will be reviewed, and strategies for addressing them proposed. Students will consider how the findings impact various facets of human life.

0101	Peter Carruthers MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) BPS 1250 SQH 1105	Discussion
0102	Peter Carruthers MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) BPS 1250 ASY 3211	Discussion
0103	Peter Carruthers MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) BPS 1250 EDU 2102	Discussion
0104	Peter Carruthers MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) BPS 1250 EDU 2119	Discussion
0105	Peter Carruthers MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) BPS 1250 EDU 3236	Discussion
0106	Peter Carruthers MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) BPS 1250 SQH 2120	Discussion

PHIL236 **Philosophy of Religion**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Also offered as: RELS236. Credit only granted for: PHIL236 or RELS236.

A philosophical study of some of the main problems of religious thought the nature of religious experience, the justification of religious belief, the conflicting claims of religion and science, and the relation between religion and morality.

0101	Sungwon Woo TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) TWS 0310 HBK 0109	Discussion
0102	Sungwon Woo TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 25) TWS 0310 HBK 0123	Discussion

0103	Sungwon Woo	Seats (Total: 25)	
	TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	TWS 0310 HBK 0123	Discussion

PHIL245 **Political and Social Philosophy I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

A critical examination of such classical political theories as those of Plato, Hobbes, Locke, Rousseau, Mill, Marx, and such contemporary theories as those of Hayek, Rawls, and recent Marxist thinkers.

0101	Brian Kogelmann	Seats (Total: 30)	
	MW 1:00pm - 1:50pm Class time/details on ELMs	ASY 3211 ONLINE	Discussion

PHIL250H **Philosophy of Science I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Main issues in the philosophy of science. Special attention to the ways scientific developments have influenced the philosophy of science and how philosophy of science has influenced scientific progress. Case studies of selected historical episodes in which science and philosophy have interacted significantly, focusing on the physical, biological, or social sciences.

0101	Harjit Bhogal	Seats (Total: 20)	
	TuTh 12:30pm - 1:45pm	SYM 0209	

PHIL269M **Special Topics in Study Abroad II; Moral Philosophy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL269Y **Special Topics in Study Abroad II; Truth & Reality**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL308T **Studies in Contemporary Philosophy; A Philosopher's Toolkit**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

An examination of how formal logic captures (and sometimes defies) logical intuitions, and how it supplies useful tools for clarifying a range of different philosophical problems, from issues of meaning, to issues of ontology and scientific reduction. NOTE: this course presupposes that you have already had some exposure to formal logic.

0101	Georges Rey	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CHE 2145

PHIL308W **Studies in Contemporary Philosophy; World Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Also offered as RELS319W. Credit granted for PHIL308W or RELS319W. This course examines five philosophical traditions: Platonism, Islam, Mexica (Aztec), Yoruba, and Confucianism.

0101	James Maffie	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SKN 1112

PHIL308X **Studies in Contemporary Philosophy; Philosophy and Time Travel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Examines the philosophical issues surrounding the paradoxes of time travel. Several solutions are considered, ranging from classical consistency conditions to multiverse theories. Materials include works of philosophy and physics, and time travel narratives from science fiction short stories and movies.

SG91	Lucas Dunlap	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

PHIL310 **Ancient Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed 6 credits in philosophy or classics.

A study of the origins and development of philosophy and science in ancient Greece, focusing on the pre-Socratics, Socrates, Plato, and Aristotle.

0101	Rachel Singpurwalla TuTh 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 25) TWS 1100 LEF 1220	Discussion
0102	Rachel Singpurwalla TuTh 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 25) TWS 1100 LEF 1201	Discussion
0103	Rachel Singpurwalla TuTh 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 25) TWS 1100 LEF 1201	Discussion

PHIL328A **Studies in the History of Philosophy; Kant's Copernican Revolution in Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view in the history of philosophy.

Kant remarked that Hume's attack on metaphysics awoke him from his "dogmatic slumber" and prompted a "Copernican Revolution" in philosophy, with epistemology supplanting metaphysics as First Philosophy. We will examine this revolution in Kant's Prolegomena and Critique of Pure Reason, prefacing our study with the work that started it all: Hume's Enquiry Concerning Human Understanding.

0101	Andrew Fyfe MW 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) ASY 3221 ONLINE	Discussion

PHIL332 **Philosophy of Beauty**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 courses in PHIL; or permission of ARHU-Philosophy department.

Philosophical theories, historical and contemporary, of beauty, sublimity, and other aesthetic qualities, of aesthetic experience, and of aesthetic judgment.

0101	John Brown TuTh 9:30am - 10:45am	Seats (Total: 25) SKN 1112

PHIL338A **Studies in Value Theory; Philosophy of Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues and points of view in ethics, aesthetics, political philosophy and related areas.

A philosophical examination of the phenomenon of fiction. Topics include the nature of fiction, the status of fictional entities (both what such the notion of truth in fiction, and the character of our emotional responses to fiction.

0101	Alexey Aliev MW 3:30pm - 4:45pm	Seats (Total: 30) JMZ 1224

PHIL341 **Ethical Theory**

Credits: 3 Grading Method: Regular

Prerequisite: 6 credits in PHIL courses.

A critical examination of classical and contemporary systems of ethics, such as those of Aristotle, Kant, Mill, and Rawls.

Prerequisite: 6 credit hours in philosophy.

0101	Chris Meyers TuTh 3:30pm - 4:45pm	Seats (Total: 25) JMZ 2207

PHIL360 **Philosophy of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 2 courses in PHIL; and (PHIL170 or PHIL370). Or permission of ARHU-Philosophy department. Also offered as: LING350. Credit only granted for: LING350 or PHIL360.

An inquiry into the nature and function of language and other forms of symbolism.

0101	Alexander Williams TuTh 9:30am - 10:45am	Seats (Total: 30) SKN 1115

PHIL362 **Theory of Knowledge**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses; and PHIL170. Formerly: PHIL462.

Some central topics in the theory of knowledge, such as perception, memory, knowledge, and belief, skepticism, other minds, truth, and the problems of induction.

0101	Daniel Blair	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	SKN 1115

PHIL370 **Symbolic Logic**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHIL170 or CMSC250; or permission of ARHU-Philosophy department. Credit only granted for: PHIL271, PHIL370, or PHIL371.

A review of propositional and predicate logic and related topics and an introduction to the semantics and metatheory of first-order logic.

0101	John Horty	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 0103

PHIL386 **Experiential Learning**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-Philosophy department; and junior standing or higher.

Consult Director of Undergraduate Studies: R. Singpurwalla. Prerequisites: 12 credit hours of philosophy and 3.0 GPA. Carries no credit toward philosophy major.

Contact department for information to register for this course.

PHIL408M **Topics in Contemporary Philosophy; Philosophy of Music**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

An examination of philosophical questions raised by music, such as: What is a musical work? What is a good performance? What does music express? Can music evoke full-fledged emotions? What is musical understanding? What is the role of imagination in musical appreciation? What is the importance of form?

0101	Jerrold Levinson	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	SKN 1115	

PHIL418A **Topics in Epistemology/Metaphysics; Models and Simulations in Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues in epistemology or metaphysics. Source material will be selected from recent books and articles.

How can cooperative institutions form out of the "state of nature"? How can groups of scientists come to know so much about nature? In the last sixty years, researchers have use mathematical and computer models to answer such questions. This class will explore computer simulation of such phenomena and the theory behind it. No background in programming necessary.

0101	Eric Pacuit	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SKN 1115	
	Class time/details on ELMs	ONLINE	Discussion

PHIL428B **Topics in the History of Philosophy; Classical Arabic Philosophy by Muslims and Jews**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Also offered as JWST429B. Credit granted for PHIL428B or JWST429B. This course is an introduction to classical Arabic philosophy from the ninth to the thirteenth centuries of the Christian era. But unlike most courses on this topic, we shall not be reading philosophy solely by Muslims but also by Jews (and maybe Christians). In a sense, the course is best described by the title of the book by Dimitri Gutas, "Greek Thought, Arabic Culture".

0101	Charles Manekin	Seats (Total: 30)	
	M 3:30pm - 6:00pm	KEY 0123	

PHIL428K **Topics in the History of Philosophy; Kantian Ethics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course explores Immanuel Kant's moral theory through a careful reading of his Groundwork of the Metaphysics of Morals. Questions we investigate include: does Kant have a plausible view of moral worth?; and does he succeed in pinpointing the supreme principle of morality?

0101	Samuel Kerstein	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	SQH 1119	

PHIL428M **Topics in the History of Philosophy; Moses Maimonides' Religious and Ethical Thought**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Also offered as JWST459M. Credit granted for PHIL428M or JWST459M. A seminar in the philosophy of Moses Maimonides, the great medieval Jewish religious thinker. The course will focus on the disputed questions in the interpretation of Maimonides, such as his views on Divine attributes, creation, providence, prophecy, the rationale of the Law, moral and intellectual perfection, and the limitations of human knowledge. No knowledge of Hebrew or Arabic is required.

0101	Charles Manekin	Seats (Total: 15)
	Th 2:00pm - 4:30pm	SQH 4116

PHIL428N **Topics in the History of Philosophy; The Aztecs: Human Sacrifice and Conquest**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as HIST429N, LASC448J, and RELS419J. Credit granted for HIST429N LASC448J, PHIL428N, or RELS419J. We examine the philosophical worldview and daily life of the Aztecs as as well as arguments concerning the legitimacy of the Conquest.

0101	James Maffie	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	KEY 1117

PHIL454 **Philosophy of Space and Time**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses.

A non-technical investigation of philosophical issues in the foundation of physics. Topics may include traditional philosophical problems of space and time, metaphysical issues about the nature of particles and fields, and philosophical problems associated with the introduction of probability into physics, such as the problem of irreversibility in thermodynamics and the problem of objectivity in quantum theory.

0101	Michael Silberstein	Seats (Total: 30)
	MW 2:00pm - 3:15pm	HBK 1108

PHIL469Y **Study Abroad Special Topics IV; Philosophy of Science II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL498F **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL498G **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL660 **Metaphysics, Mind, and Language**

Credits: 3 Grading Method: Regular, Audit

A basic course on selected issues in metaphysics, philosophy of mind, and philosophy of language for beginning graduate students, covering a number of topics in depth, to provide a springboard for further study and research in the area.

0101	Georges Rey	Seats (Total: 10)
	W 1:00pm - 3:30pm	SKN 1116

PHIL688T **Selected Problems in Philosophy; Introduction to Semantics**

Credits: 3 Grading Method: Regular, Audit

Also offered as LING660. Credit granted for LING660 or PHIL688T.

0101	Alexander Williams	Seats (Total: 15)
	MW 9:00am - 10:15am	MMH 1108B

PHIL788G **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788I **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research; Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHIL848A **Seminar in Ethics; Nations and Nationalism**

Credits: 3 Grading Method: Regular, Audit

0101	Christopher Morris	Seats (Total: 15)
	Th 1:00pm - 3:30pm	SKN 1116

PHIL858D **Seminar in Logic and Philosophy of Sciences**

Credits: 3 Grading Method: Regular, Audit

0101	Aidan Lyon	Seats (Total: 15)
	Tu 4:30pm - 7:00pm	SKN 1116

PHIL878D **Seminar in Cognitive Studies**

Credits: 3-9 Grading Method: Regular, Audit

Methodology and research in various disciplines involved in cognitive studies.

0101	Peter Carruthers	Seats (Total: 15)
	M 3:00pm - 5:30pm	SKN 1116

PHIL888 **Professional Mentoring for Doctoral Students**

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor on various aspects of professional development.

Contact department for information to register for this course.

PHIL889 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor to develop and improve pedagogical skills.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research; Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PHSC Public Health Science Fall 2017

PHSC389 **Independent Research Study in Public Health Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.

0101	Kristin Cipriani	Seats (Total: 15)
	Contact instructor or department for details.	
SG91	Kristin Cipriani	Seats (Total: 15)
	Contact instructor or department for details.	

PHSC399 **Public Health Science Internship**

Credits: 1-6 Grading Method: Regular

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

0101	Nancy Smith	Seats (Total: 15)
	Contact instructor or department for details.	

SG91	Nancy Smith Contact instructor or department for details.	Seats (Total: 15)	

PHSC401 **History of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 45 credits. Credit only granted for: PHSC401 or SPHL401. Formerly: SPHL401.

Emphasis is on the history of public health in the Western world from antiquity to the present. Also examines the influence of public health developments as they relate to the Western world as well as throughout diverse cultures and societies across the globe. Analysis focuses on the interaction among Western and non-Western cultures with respect to health issues, including science, policies, prevention and treatment.

0101	David Cantor MW 5:00pm - 5:50pm M 9:00am - 9:50am	Seats (Total: 20) SPH 1312 SPH 0307	Discussion
0102	David Cantor MW 5:00pm - 5:50pm M 10:00am - 10:50am	Seats (Total: 20) SPH 1312 PLS 1158	Discussion
0103	David Cantor MW 5:00pm - 5:50pm M 11:00am - 11:50am	Seats (Total: 20) SPH 1312 PLS 1172	Discussion
0104	David Cantor MW 5:00pm - 5:50pm M 12:00pm - 12:50pm	Seats (Total: 20) SPH 1312 SPH 0301	Discussion
0105	David Cantor MW 5:00pm - 5:50pm M 1:00pm - 1:50pm	Seats (Total: 20) SPH 1312 SPH 0301	Discussion
0106	David Cantor MW 5:00pm - 5:50pm M 2:00pm - 2:50pm	Seats (Total: 20) SPH 1312 SPH 0305	Discussion
0107	David Cantor MW 5:00pm - 5:50pm M 3:00pm - 3:50pm	Seats (Total: 20) SPH 1312 SPH 0305	Discussion

SG91	Eric Boyle Th 6:00pm - 8:30pm	Seats (Total: 35) BLD3 4203

PHSC402 **Public Health Emergency Preparedness**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: PHSC402 or SPHL402. Formerly: SPHL402.

Intensive introduction to public health emergency preparedness. Course will provide students with an overview of the role of public health in planning, prevention, preparedness, response, and recovery from disasters, both manmade and natural.

0101	Marilyn London W 2:00pm - 4:30pm	Seats (Total: 30) WDS 1130
SG91	Marilyn London W 9:00am - 11:30am	Seats (Total: 30) BLD3 2203

PHSC412 **Food, Policy, and Public Health**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed HLSA300 with a C- or higher. Recommended: NFSC100. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC412 or SPHL412. Formerly: SPHL412.

Broad overview of the impact of food and food policy on public health. Course covers topics such as access to food, food systems, influence of food policies on the individual, the cost of food, influences on food selection, food safety risks and responses, nutrition-related health challenges, and a comparison of US food/nutrition issues with those of other nations.

0101	Christopher Waldrop Th 5:00pm - 7:30pm	Seats (Total: 30) SPH 0307

PHSC415 **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

0101	Jessica O'Hara MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) ESJ 2208 PLS 1172	Discussion
0102	Jessica O'Hara MW 1:00pm - 1:50pm W 3:00pm - 3:50pm	Seats (Total: 20) ESJ 2208 PLS 1176	Discussion
0103	Jessica O'Hara MW 1:00pm - 1:50pm W 4:00pm - 4:50pm	Seats (Total: 20) ESJ 2208 PLS 1176	Discussion
0104	Jessica O'Hara MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) ESJ 2208 PLS 1164	Discussion
0105	Jessica O'Hara MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) ESJ 2208 PLS 1168	Discussion
0106	Jessica O'Hara MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ESJ 2208 PLS 1176	Discussion
SG91	Jessica O'Hara Tu 9:30am - 12:00pm	Seats (Total: 35) BLD3 4216	
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.		

PHSC426 **Climate Change and Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MIEH300. Restriction: Must be in Public Health Science program.

Climate change is characterized by increasing global temperatures, greater rainfall variability, more frequent natural disasters, and rising sea levels. These environmental changes pose significant risks to population health by affecting air quality, the availability of safe drinking water, infectious disease transmission, food security, and access to housing, land, and livelihoods. This course will examine the relationship between climate change and human health, focusing on how climate change vulnerability varies between populations by geographic, demographic, and socioeconomic characteristics.

SG91	Heather Randell Tu 5:15pm - 7:45pm	Seats (Total: 30) BLD3 3226

PHSC497 **Public Health Science Capstone**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in MIEH400. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.

The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.

0101	Chandria Jones M 5:00pm - 7:30pm	Seats (Total: 20) PLS 1158
0301	Eric Boyle Tu 4:00pm - 6:30pm	Seats (Total: 20) ATL 2316
0501	Blair Coleman W 5:00pm - 7:30pm *This thesis section will focus on addictive behaviors.*	Seats (Total: 20) SPH 0303
0601	Shaun Edmonds W 6:00pm - 8:30pm	Seats (Total: 20) ATL 2416
SG91	Alyssa Brooks Tu 5:15pm - 7:45pm	Seats (Total: 15) BLD3 3225

PHYS Physics Fall 2017

PHYS102 **Physics of Music**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL (if taken with PHYS103)

Prerequisite: Must have math eligibility of MATH107 or higher. Credit only granted for: PHYS102 and PHYS499C. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS103.

A study of the physical basis of sound, acoustical properties of sound, the human ear and voice, reproduction of sound, electronic music, acoustical properties of auditoriums, and other selected topics.

0101	Alan Peel TuTh 9:30am - 10:45am	Seats (Total: 150) PHY 1410	

PHYS103 **Physics of Music Laboratory**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Optional laboratory to accompany PHYS 102. Laboratory experiments, including the velocity of sound, sound quality and wave shape, traveling and standing waves, fourier synthesis and analysis, musical synthesizer, psychoacoustics, and audio equipment.

0101	Andris Skuja Th 11:00am - 12:50pm	Seats (Total: 18) PHY 3220	Lab
0201	Andris Skuja Th 1:00pm - 2:50pm	Seats (Total: 18) PHY 3220	Lab
0301	Andris Skuja Th 3:30pm - 5:20pm	Seats (Total: 18) PHY 3220	Lab
0401	Andris Skuja F 10:00am - 11:50am *Recommended for First-Year students.*	Seats (Total: 18) PHY 3220	Lab
0501	Andris Skuja F 12:00pm - 1:50pm	Seats (Total: 18) PHY 3220	Lab
0601	Andris Skuja F 2:00pm - 3:50pm	Seats (Total: 18) PHY 3220	Lab

0701	Andris Skuja W 3:00pm - 5:00pm	Seats (Total: 18) PHY 3220	Lab
0801	Andris Skuja W 1:00pm - 2:50pm	Seats (Total: 18) PHY 3220	Lab

PHYS105 **Physics for Decision Makers: Global Energy Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

This marquee course will consider the global energy crisis from a scientific perspective. Topics include basic laws of energy and thermodynamics, their effects on energy production and distribution, greenhouse gas, global warming and policy options for decision makers. This course is aimed at the non-science major.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0102	Steven Rolston TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 24) PHY 1410 PHY 0405	Discussion
0104	Steven Rolston TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 24) PHY 1410 MTH 0102	Discussion
0105	Steven Rolston TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 24) PHY 1410 PHY 1219	Discussion

PHYS111 **Physics in the Modern World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS

A survey course in general physics emphasizing the role that physics plays in science, technology, and society today. The course is concept oriented and minimal use of mathematics is made. Intended for the general student; does not satisfy the requirements of the professional schools.

Contact department for information to register for this course.

PHYS115 **Inquiry into Physics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Recommended: High School Physics. Restriction: Must not have completed PHYS117; and must be in one of the following programs (Elementary Education; Early Childhood Education; Middle School Education). Credit only granted for: PHYS115 or PHYS117.

Intended for students majoring in neither the physical nor the biological sciences. Use of laboratory-based and inquiry-based methods to study some of the basic ideas of physical sciences.

0101	Shabnam Jabeen MWF 1:00pm - 2:50pm	Seats (Total: 20) PHY 3316	 Lab
0201	Jennifer Radoff MWF 9:00am - 10:50am	Seats (Total: 20) PHY 3316	 Lab

PHYS121 Fundamentals of Physics I

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 11,1. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0201	Sergio Picozzi MWF 12:00pm - 12:50pm M 10:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 26) PHY 1412 PHY 3306 PHY 0405	 Lab Discussion
0202	Sergio Picozzi MWF 12:00pm - 12:50pm M 2:00pm - 3:50pm M 1:00pm - 1:50pm	Seats (Total: 26) PHY 1412 PHY 3306 MTH 0201	 Lab Discussion
0203	Sergio Picozzi MWF 12:00pm - 12:50pm Tu 9:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 26) PHY 1412 PHY 3306 PHY 1402	 Lab Discussion

0204	Sergio Picozzi	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	Tu 3:00pm - 4:50pm	PHY 3306	Lab
	Tu 2:00pm - 2:50pm	MTH 0403	Discussion
0206	Sergio Picozzi	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	W 3:00pm - 4:50pm	PHY 3306	Lab
	W 2:00pm - 2:50pm	MTH 0302	Discussion
0401	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	M 8:00pm - 9:50pm	PHY 3306	Lab
	W 6:30pm - 7:20pm	PHY 1402	Discussion
0402	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	W 7:30pm - 9:20pm	PHY 3306	Lab
	M 6:30pm - 7:20pm	PHY 1402	Discussion
0403	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Tu 5:00pm - 6:50pm	PHY 3306	Lab
	Th 7:30pm - 8:20pm	PHY 1219	Discussion
0404	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	M 6:00pm - 7:50pm	PHY 3306	Lab
	M 5:00pm - 5:50pm	PHY 0405	Discussion
0405	Sergio Picozzi	Seats (Total: 8)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion

SEF1	Sergio Picozzi	Seats (Total: 18)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

PHYS122 **Fundamentals of Physics II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 12,2. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0101	Sergio Picozzi	Seats (Total: 24)	
	MWF 1:00pm - 1:50pm	PHY 1410	
	M 4:00pm - 5:50pm	PHY 3314	Lab
	M 3:00pm - 3:50pm	EGR 2116	Discussion
0102	Sergio Picozzi	Seats (Total: 24)	
	MWF 1:00pm - 1:50pm	PHY 1410	
	Tu 10:00am - 11:50am	PHY 3314	Lab
	Tu 9:00am - 9:50am	MTH 0405	Discussion
0105	Sergio Picozzi	Seats (Total: 24)	
	MWF 1:00pm - 1:50pm	PHY 1410	
	Tu 4:00pm - 5:50pm	PHY 3314	Lab
	Th 4:00pm - 4:50pm	PHY 1204	Discussion
0401	Sergio Picozzi	Seats (Total: 18)	
	MW 6:00pm - 7:15pm	PHY 1201	
	M 7:30pm - 9:20pm	PHY 3314	Lab
	W 7:30pm - 8:20pm	PHY 1204	Discussion

0402	Sergio Picozzi	Seats (Total: 24)	
	MW 6:00pm - 7:15pm	PHY 1201	
	W 7:30pm - 9:20pm	PHY 3314	Lab
	M 7:30pm - 8:20pm	PHY 1204	Discussion
SEF1	Sergio Picozzi	Seats (Total: 6)	
	MW 6:00pm - 7:15pm	PHY 1201	
	M 7:30pm - 9:20pm	PHY 3314	Lab
	W 7:30pm - 8:20pm	PHY 1204	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

PHYS131 **Fundamentals of Physics for Life Sciences I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131, or PHYS331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	Mark Eichenlaub	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1202	
	W 5:00pm - 6:50pm	PHY 3310	Lab
	W 4:00pm - 4:50pm	PHY 3310	Discussion
0102	Mark Eichenlaub	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1202	
	M 4:00pm - 5:50pm	PHY 3310	Lab
	M 3:00pm - 3:50pm	PHY 3310	Discussion
0103	Mark Eichenlaub	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1202	
	Tu 10:00am - 11:50am	PHY 3310	Lab
	Tu 9:00am - 9:50am	PHY 3310	Discussion

0104	Mark Eichenlaub	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1202	
	W 1:00pm - 2:50pm	PHY 3310	Lab
	W 12:00pm - 12:50pm	PHY 3310	Discussion
0107	Mark Eichenlaub	Seats (Total: 24)	
	MWF 10:00am - 10:50am	ESJ 1202	
	M 7:00pm - 8:50pm	PHY 3310	Lab
	M 6:00pm - 6:50pm	PHY 3310	Discussion
0108	Mark Eichenlaub	Seats (Total: 12)	
	MWF 10:00am - 10:50am	ESJ 1202	
	Tu 8:00pm - 9:50pm	PHY 3310	Lab
	Tu 7:00pm - 7:50pm	PHY 3310	Discussion
0201	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	M 12:00pm - 1:50pm	PHY 3310	Lab
	M 11:00am - 11:50am	PHY 3310	Discussion
0202	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	Tu 5:00pm - 6:50pm	PHY 3310	Lab
	Tu 4:00pm - 4:50pm	PHY 3310	Discussion
0203	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	Th 10:00am - 11:50am	PHY 3310	Lab
	Th 9:00am - 9:50am	PHY 3310	Discussion
0204	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	Th 5:00pm - 6:50pm	PHY 3310	Lab
	Th 4:00pm - 4:50pm	PHY 3310	Discussion
0205	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	W 10:00am - 11:50am	PHY 3310	Lab
	W 9:00am - 9:50am	PHY 3310	Discussion

0206	Edward Redish	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	M 8:00am - 9:50am	PHY 3310	Lab
	M 10:00am - 10:50am	PHY 3310	Discussion
0208	Edward Redish	Seats (Total: 12)	
	TuTh 2:00pm - 3:15pm	ESJ 1224	
	Tu 8:00pm - 9:50pm	PHY 3310	Lab
	Tu 7:00pm - 7:50pm	PHY 3310	Discussion

PHYS132 **Fundamentals of Physics for Life Sciences II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 1:00pm - 2:50pm	PHY 3312	Lab
	Tu 12:00pm - 12:50pm	PHY 3312	Discussion
0103	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	M 4:00pm - 5:50pm	PHY 3312	Lab
	M 3:00pm - 3:50pm	PHY 3312	Discussion
0104	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	W 4:00pm - 5:50pm	PHY 3312	Lab
	W 3:00pm - 3:50pm	PHY 3312	Discussion
0105	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 4:00pm - 5:50pm	PHY 3312	Lab
	Tu 3:00pm - 3:50pm	PHY 3312	Discussion

0201	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 10:00am - 11:50am	PHY 3312	Lab
	M 9:00am - 9:50am	PHY 3312	Discussion
0203	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 1:00pm - 2:50pm	PHY 3312	Lab
	M 12:00pm - 12:50pm	PHY 3312	Discussion
0204	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	W 1:00pm - 2:50pm	PHY 3312	Lab
	W 12:00pm - 12:50pm	PHY 3312	Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

Physics clinic, PHY 1214, MTWHF 11, 2. If purchasing used books additional software may be required.

0101	Andrew Baden	Seats (Total: 37)	
	MWF 3:00pm - 3:50pm	PHY 1410	
	Tu 3:00pm - 3:50pm	PHY 0405	Discussion
0103	Andrew Baden	Seats (Total: 37)	
	MWF 3:00pm - 3:50pm	PHY 1410	
	F 10:00am - 10:50am	CHM 0128	Discussion
0104	Andrew Baden	Seats (Total: 37)	
	MWF 3:00pm - 3:50pm	PHY 1410	
	F 11:00am - 11:50am	PHY 0405	Discussion
0201	Sergio Picozzi	Seats (Total: 37)	
	TuTh 11:00am - 12:15pm	PHY 1410	
	Th 8:00am - 8:50am	PHY 0405	Discussion

0202	Sergio Picozzi TuTh 11:00am - 12:15pm Tu 2:00pm - 2:50pm	Seats (Total: 37) PHY 1410 PHY 1204	Discussion
0203	Sergio Picozzi TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 CHM 0128	Discussion
0204	Sergio Picozzi TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 35) PHY 1410 MTH 0303	Discussion
0301	Matthew Severson MWF 10:00am - 10:50am Th 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 PHY 1204	Discussion
0302	Matthew Severson MWF 10:00am - 10:50am Tu 4:00pm - 4:50pm	Seats (Total: 37) PHY 1410 PHY 1219	Discussion
0303	Matthew Severson MWF 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 37) PHY 1410 PHY 0405	Discussion
0304	Matthew Severson MWF 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 35) PHY 1410 EGR 3106	Discussion

PHYS165 **Introduction to Programming in the Physical Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS171, PHYS141, or PHYS161; or must have scored 3 or higher on AP PHYS exam.

Introduction to programming using examples in the physical sciences. Provides instruction in the techniques of upper-level languages such as Fortran, C, and Pascal, as well as an introduction to the object oriented programming techniques used in Python, C++ and Java. Includes strong component of visualization and graphing.

0101	Rajarshi Roy TuTh 9:30am - 10:45am	Seats (Total: 32) PLS 1129

PHYS170 **Professional Physics Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in Physics program; or must be in Physics-Education program; or permission of instructor.

Provides a look at some of the major developments of current interest i physics research and discusses the activities physicists undertake in research, education, industry, government, and other areas of the economy.

0101	Thomas Gleason, Donna Hammer	Seats (Total: 24)
	W 12:00pm - 12:50pm	PHY 4221

PHYS171 **Introductory Physics: Mechanics and Relativity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS 171H.

0201	Peter Shawhan	Seats (Total: 55)	
	MWF 9:00am - 9:50am	PHY 1201	
	W 11:00am - 11:50am	ESJ 0215	Discussion

PHYS171H **Introductory Physics: Mechanics and Relativity**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS171.

0201	Peter Shawhan MWF 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 55) PHY 1201 ESJ 0215	Discussion

PHYS174 **Physics Laboratory Introduction**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Recommended: High school physics.

Introduces students to the techniques of data gathering and analysis. This course will lay a foundation for higher-level labs in physics and the physical sciences. Students will learn to use laboratory equipment such as calipers, meters, oscilloscopes, and computer interfaces. Techniques of measurement and error analysis will be presented. Students will be taught to use the computer for data analysis with an emphasis on using spreadsheets.

0102	Theodore Einstein W 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	Lab
0103	Jordan Goodman Th 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	Lab
0105	Jordan Goodman W 12:00pm - 1:50pm	Seats (Total: 26) PHY 3115	Lab
0106	Jordan Goodman W 10:00am - 11:50am	Seats (Total: 26) PHY 3115	Lab
0107	Theodore Einstein Tu 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	Lab
0108	Theodore Einstein W 4:00pm - 5:50pm	Seats (Total: 26) PHY 3115	Lab

PHYS199M **The Manhattan Project**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSHS, DSNS, SCIS

This course explores the development of the atomic bomb during the Manhattan project. Nuclear Physics is introduced in a historical context from the discovery of radioactivity in 1896 to the discovery of nuclear fission in Germany in 1938; this historical approach allows students to understand how scientific knowledge is built up over time.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Johnpierre Paglione MW 4:00pm - 5:15pm M 1:00pm - 1:50pm	Seats (Total: 25) PHY 1410 PHY 1402	Discussion
0102	Johnpierre Paglione MW 4:00pm - 5:15pm M 2:00pm - 2:50pm	Seats (Total: 25) PHY 1410 PHY 0405	Discussion
0103	Johnpierre Paglione MW 4:00pm - 5:15pm Tu 2:00pm - 2:50pm	Seats (Total: 25) PHY 1410 PHY 0405	Discussion
0104	Johnpierre Paglione MW 4:00pm - 5:15pm W 1:00pm - 1:50pm	Seats (Total: 25) PHY 1410 PHY 1402	Discussion
0105	Johnpierre Paglione MW 4:00pm - 5:15pm W 2:00pm - 2:50pm	Seats (Total: 25) PHY 1410 PHY 0405	Discussion

PHYS260 **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

If purchasing used books additional software may be required.

0101	Maissam Barkeshli MW 4:30pm - 5:45pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 PLS 1119	Discussion
0102	Maissam Barkeshli MW 4:30pm - 5:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1412 PHY 0405	Discussion

0103	Maissam Barkeshli MW 4:30pm - 5:45pm W 8:00am - 8:50am	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0104	Maissam Barkeshli MW 4:30pm - 5:45pm W 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0105	Maissam Barkeshli MW 4:30pm - 5:45pm F 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 PHY 1204	 Discussion
0201	Kara Hoffman MW 3:00pm - 4:15pm Tu 8:00am - 8:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0202	Kara Hoffman MW 3:00pm - 4:15pm Tu 9:00am - 9:50am	Seats (Total: 30) PHY 1412 HBK 0105	 Discussion
0203	Kara Hoffman MW 3:00pm - 4:15pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 PLS 1111	 Discussion
0204	Kara Hoffman MW 3:00pm - 4:15pm F 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 PHY 1402	 Discussion
0205	Kara Hoffman MW 3:00pm - 4:15pm W 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0206	Kara Hoffman MW 3:00pm - 4:15pm M 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0207	Kara Hoffman MW 3:00pm - 4:15pm W 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 MTH 0101	 Discussion

0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 34) PHY 1412 PHY 1219	 Discussion
0302	Rabindra Mohapatra TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 35) PHY 1412 PHY 0405	 Discussion
0303	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 12:00pm - 12:50pm	Seats (Total: 33) PHY 1412 PLS 1111	 Discussion
0304	Rabindra Mohapatra TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 32) PHY 1412 PHY 1402	 Discussion
0305	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 1:00pm - 1:50pm	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0401	Hailu Gebremariam M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 8:00pm - 8:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 0405	 Discussion
0402	Hailu Gebremariam M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 6:00pm - 6:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 1219	 Discussion
0501	Michelle Girvan TuTh 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 30) PHY 1410 PHY 0405	 Discussion
0502	Michelle Girvan TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 30) PHY 1410 PHY 0405	 Discussion
0503	Michelle Girvan TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 30) PHY 1410 PHY 1219	 Discussion

0504	Michelle Girvan TuTh 3:30pm - 4:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1410 PHY 1219	Discussion

PHYS260H **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

If purchasing used books additional software may be required.

0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) PHY 1412 HBK 0105	Discussion

PHYS261 **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

Students must pay a $50.00 laboratory materials fee.

0201	Matthew Severson M 8:00am - 10:20am	Seats (Total: 36) PHY 3219	Lab
0202	Matthew Severson M 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0203	Matthew Severson M 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0204	Matthew Severson M 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab

0205	Matthew Severson M 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0206	Matthew Severson Tu 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab
0207	Matthew Severson Tu 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab
0208	Matthew Severson Tu 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab
0209	Matthew Severson Tu 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0210	Matthew Severson Tu 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0211	Matthew Severson W 8:00am - 10:20am	Seats (Total: 36) PHY 3219	Lab
0212	Matthew Severson W 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0213	Matthew Severson W 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0214	Matthew Severson W 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0215	Matthew Severson W 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0216	Matthew Severson Th 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab
0217	Matthew Severson Th 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab
0218	Matthew Severson Th 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab

0219	Matthew Severson Th 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0220	Matthew Severson Th 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0221	Matthew Severson F 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab

PHYS261M **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

0101	Instructor: TBA Contact instructor or department for details. *Restricted to students transferring a lab grade from a previous semester.*	Seats (Total: 10)

PHYS270 **General Physics: Electrodynamics, Light, Relativity and Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

If purchasing used books additional software may be required.

0101	David Buehrle TuTh 5:00pm - 6:15pm Th 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 PHY 1204	Discussion
0102	David Buehrle TuTh 5:00pm - 6:15pm Th 4:00pm - 4:50pm	Seats (Total: 35) PHY 1410 PHY 1219	Discussion

0103	David Buehrle TuTh 5:00pm - 6:15pm W 9:00am - 9:50am	Seats (Total: 35) PHY 1410 CHM 0128	Discussion
0104	David Buehrle TuTh 5:00pm - 6:15pm F 1:00pm - 1:50pm	Seats (Total: 35) PHY 1410 PHY 0405	Discussion
0301	David Buehrle MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 35) PHY 1410 PHY 0405	Discussion
0302	David Buehrle MWF 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion
0303	David Buehrle MWF 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion
0304	David Buehrle MWF 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 35) PHY 1410 MTH 0304	Discussion

PHYS271 **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

Students must pay a $50.00 laboratory materials fee.

0102	Matthew Severson M 3:00pm - 5:50pm	Seats (Total: 36) PHY 3213	Lab
0103	Matthew Severson M 6:00pm - 8:50pm	Seats (Total: 36) PHY 3213	Lab

0104	Matthew Severson W 4:00pm - 6:50pm	Seats (Total: 36) PHY 3213	Lab
0105	Matthew Severson Tu 10:00am - 12:50pm	Seats (Total: 36) PHY 3213	Lab
0106	Matthew Severson Tu 1:00pm - 3:50pm	Seats (Total: 36) PHY 3213	Lab
0108	Matthew Severson Tu 7:00pm - 9:50pm	Seats (Total: 36) PHY 3213	Lab
0117	Matthew Severson Th 11:00am - 1:50pm	Seats (Total: 36) PHY 3213	Lab
0118	Matthew Severson Th 2:00pm - 4:50pm	Seats (Total: 36) PHY 3213	Lab

PHYS271M **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

0101	Instructor: TBA Contact instructor or department for details. *Restricted to students transferring a lab grade from a previous semester.*	Seats (Total: 10)

PHYS272 **Introductory Physics: Fields**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

Also offered as PHYS 272H.

0101	Richard Greene TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 54) PHY 1204 ESJ 0215
0201	James Williams TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 49) PHY 1402 PHY 1402

PHYS272H **Introductory Physics: Fields**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

For general honors students only. Also offered as PHYS 272.

0101	Richard Greene TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 54) PHY 1204 ESJ 0215
0201	James Williams TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 49) PHY 1402 PHY 1402

PHYS273 **Introductory Physics: Waves**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

Also offered as PHYS 273H.

0101	Thomas Cohen TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 55) PHY 1201 ESJ 0215

PHYS273H **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

For general honors students only. Also offered as PHYS 273.

0101	Thomas Cohen TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 55) PHY 1201 ESJ 0215

PHYS274 **Mathematical Methods for Physics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272.

A first course in mathematical methods for physics. Topics include linear algebra, curvilinear coordinates and vector analysis.

0101	Adil Hassam MWF 12:00pm - 12:50pm	Seats (Total: 50) KEY 1117

PHYS275 **Experimental Physics I: Mechanics and Heat**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS161 or PHYS171; and PHYS174. Additional information: CORE Physical Science Lab (PL) Course only when taken concurrently with PHYS272.

Methods and rationale of experimental physics. Intended for physics majors and science and engineering students who desire a more rigorous approach. Experiments chosen from the areas of mechanics (from PHYS171), gas laws, and heats. Theory and applications of error analysis.

0101	Min Ouyang M 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	 Lab
0201	Min Ouyang W 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	 Lab
0301	Alberto Belloni Tu 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	 Lab
0401	Alberto Belloni Th 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	 Lab

PHYS276 **Experimental Physics II: Electricity and Magnetism**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS272 and PHYS275.

Second course in the three semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the fields of electricity and magnetism including electrostatics, magnetostatics, magnetic induction, AC circuits.

0101	Sarah Eno M 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0201	Sarah Eno Tu 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0301	Frederick Wellstood Th 2:00pm - 5:50pm	Seats (Total: 11) PHY 3120	 Lab
0401	Frederick Wellstood W 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab

PHYS299 **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS331 **Physics for Life Sciences I**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131 or PHYS 331.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

Students must pay a $50.00 lab materials fee.

SG91	Marco Colombini	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	BLD3 2206	
	F 2:00pm - 4:50pm	BLD2 4012	Lab
	F 1:00pm - 1:50pm	BLD1 217	Discussion
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

PHYS371 **Modern Physics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274. Corequisite: PHYS373. Credit only granted for: PHYS371 or PHYS420. Additional information: This course is intended primarily for physics and astronomy majors.

Introduces students to special relativity, thermodynamics and quantum mechanics at an intermediate level.

0101	Paulo Bedaque	Seats (Total: 60)
	MWF 1:00pm - 1:50pm	SYM 0200

PHYS373 **Mathematical Methods for Physics II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274.

A second course in mathematical methods for physics. Topics include introduction to ordinary differential equations, partial differential equations, and complex analysis.

0101	Ki-Yong Kim TuTh 11:00am - 12:15pm	Seats (Total: 64) PHY 1201	

PHYS375 **Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PHYS276 and PHYS273.

Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.

Besides lab hours scheduled below, additional required lab time will be arranged.

0101	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm M 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab
0102	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm W 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab
0103	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm Tu 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab
0104	Andris Skuja, Wendell Hill M 2:00pm - 2:50pm Th 3:00pm - 5:50pm	Seats (Total: 10) PHY 1410 PHY 3203	 Lab

PHYS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

PHYS389 **Undergraduate Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Independent directed research and study on a topic selected by the student in consultation with his or her advisor. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

PHYS398 **Independent Studies Seminar**

(Perm req)

Credits: 1-16

Grading Method: Regular, Pass-Fail, Audit

Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.

Contact department for information to register for this course.

PHYS399 **Special Problems in Physics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS399C **Special Problems in Physics; Physics STEM Seminar**

Credits: 1

Grading Method: Regular

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Thomas Gleason, Donna Hammer **Meets September 29, 2017 - December 11, 2017** F 3:00pm - 3:50pm TBA	Seats (Total: 8) PHY 1201 PHY 1201	 Discussion

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PHYS399D **Special Problems in Physics; Physics STEM Seminar II**

(Perm req)

Credits: 2

Grading Method: Regular

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Donna Hammer, Thomas Gleason F 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 8) PHY 1204	

PHYS401 **Quantum Physics I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS371 and PHYS373. Formerly: PHYS421.

Introduces some quantum phenomena leading to wave-particle duality. Schroedinger theory for bound states and scattering in one dimension. One-particle Schroedinger equation and the hydrogen atom.

0101	Christopher Lobb	Seats (Total: 68)
	MWF 10:00am - 10:50am	PHY 1201
	W 11:00am - 11:50am	ESJ 2212

PHYS402 **Quantum Physics II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS401.

Quantum states as vectors; spin and spectroscopy, multiparticle systems the periodic table, perturbation theory, band structure, etc.

0101	Steven Anlage	Seats (Total: 48)
	MW 10:00am - 10:50am	PHY 1402
	MW 11:00am - 11:50am	PHY 1402

PHYS404 **Introduction to Statistical Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS371 or PHYS420.

Introduction to basic concepts in thermodynamics and statistical mechanics.

0101	Ian Appelbaum	Seats (Total: 45)
	MWF 9:00am - 9:50am	ESJ 2212

PHYS405 **Advanced Experiments**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.

Advanced laboratory techniques. Selected experiments from many fields o modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.

0101	Abolhassan Jawahery	Seats (Total: 20)	
	W 12:00pm - 12:50pm TBA	PHY 1402 PHY 3112	Lab Lab

PHYS407 **Undergraduate Experimental Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PHYS499 and PHYS375; and permission of CMNS-Physics department. Restriction: Must be in a major within CMNS-Physics department; and senior standing.

Students develop and complete an independent, experimental research project with a professor in the Physics Department. The project should be a continuation of work done in PHYS499A. To obtain permission, students must submit a proposal describing the experimental work to be completed and this proposal must be approved by their faculty mentor, the associate chair for undergraduate education and the chair of the laboratory committee. Students must maintain a lab notebook, give an oral presentation and complete a written report on their research that includes data and error analysis.

0101	Kara Hoffman	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS410 **Classical Mechanics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373.

Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics.

0101	William Dorland	Seats (Total: 60)	
	TuTh 9:00am - 10:50am	PHY 1201	

PHYS411 **Intermediate Electricity and Magnetism**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373.

Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.

0101	Phillip Sprangle	Seats (Total: 49)
	TuTh 11:00am - 12:50pm	PHY 1402

PHYS420 **Principles of Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. And PHYS271 and PHYS270; or PHYS273. Credit only granted for: PHYS371 or PHYS420.

A survey of atomic and nuclear phenomena and the main trends in modern physics. Appropriate for students in engineering and other physical sciences.

0101	Jay Sau	Seats (Total: 40)
	MW 3:30pm - 4:45pm	PHY 0405

PHYS431 **Properties of Matter**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241; and (PHYS401 or PHYS420). Also offered as: ENMA460. Credit only granted for: ENMA460 or PHYS431.

Introduction to solid state physics. Electromagnetic, thermal, and elastic properties of metals, semiconductors, insulators and superconductors.

0101	Ichiro Takeuchi	Seats (Total: 15)
	MW 5:00pm - 6:15pm	CHE 2108

PHYS475 **Introduction to Relativity, Gravitation and Cosmology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS373 and PHYS410; or permission of instructor. Restriction: Permission of CMNS-Physics department. Additional information: Intended primarily for undergraduate physics majors.

Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.

0101	Bei Lok Hu	Seats (Total: 10)
	MW 1:00pm - 2:15pm	PSC 3150

PHYS485 **Electronic Circuits**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS405. Corequisite: PHYS374. Restriction: Must be in a major within CMNS-Physics department.

Theory and application to experimental physics of modern semiconductor analog and digital circuits. Emphasis on understanding passive and active elements in practical circuits. Topics span the range from simple transistor circuits to microcomputers.

Additional Note: Also offered as PHYS685. Credit only granted for PHYS485 or PHYS685.

0101	Daniel Lathrop MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	Seats (Total: 24) CHE 2136 PHY 3321	 Lab
0102	Daniel Lathrop MF 2:00pm - 2:50pm Tu 1:00pm - 4:50pm	Seats (Total: 18) CHE 2136 PHY 3321	 Lab

PHYS499A **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499B **Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS601 **Theoretical Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS410; or students who have taken courses with comparable content may contact the department.

Lagrangian and Hamiltonian mechanics, two-body central force problem, rigid body motion, small oscillations, continuous systems.

0101	Kaustubh Agashe	Seats (Total: 49)
	TuTh 12:30pm - 1:45pm	HBK 0115

PHYS604 **Methods of Mathematical Physics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed coursework in advanced calculus; and (PHYS411 and PHYS410). Or students who have taken courses with comparable content may contact the department.

Ordinary and partial differential equations of physics, boundary value problems, Fourier series, Green's functions, complex variables and contour integration.

0101	Zohreh Davoudi	Seats (Total: 50)
	TuTh 9:30am - 10:45am	ATL 1113

PHYS622 **Introduction to Quantum Mechanics I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Must have an outstanding undergraduate background in physics.

First and second semesters. A study of the Schroedinger equation, matrix formulations of quantum mechanics, approximation methods, scattering theory, etc. Applications to solid state, atomic, and nuclear physics.

0201	Victor Yakovenko	Seats (Total: 67)
	MW 10:00am - 10:50am	ATL 1113
	F 10:00am - 11:50am	ATL 1113

PHYS624 **Advanced Quantum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

Relativistic wave equations, second quantization in many body problems and relativistic wave equations, Feynman-Dyson perturbation theory, applications to many body problems, application to quantum electrodynamics, elements of renormalization.

0101	Theodore Jacobson	Seats (Total: 38)
	TuTh 9:30am - 10:45am	SPH 0302

PHYS662 **Intersections of Technology and Policy: Modernizing the Engergy System**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Graduate Status in one of the Natural Sciences, Engineering, Public Policy, Economics OR senior-level standing in one of the disciplines above with at least a 3.0 GPA.

A broad, practical introduction to the issues and assessment approaches used to evaluate technical innovation in the Energy System. Introduction to the use of Sankey Diagrams, Life Cycle Analysis, Techno-economic analysis, and Equilibrium Economic Analysis, as well as policy factors such as Energy Efficiency Standards, Vehicle Fuel Economy, Feed-in-tariffs and environmental regulations.

Also offered as PLCY699B. Credit granted for PHYS662 or PLCY699B.

0101	Ellen Williams	Seats (Total: 18)
	TuTh 9:30am - 10:45am	IPT 1116

PHYS675 **Introduction to Relativity, Gravitation and Cosmology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS606 and PHYS601.

Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.

0101	Bei Lok Hu	Seats (Total: 28)
	MW 1:00pm - 2:15pm	PSC 3150

PHYS685 **Research Electronics**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: PHYS374 or PHYS405; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed PHYS485. Credit only granted for: PHYS485 or PHYS685.

An integrated lecture and laboratory course in electronics with equal emphasis on experimental methods and results and analysis using device models and up-to-date mathematical and numerical tools. Experiments and analysis of circuits with passive and single active devices form the background for the study of operational amplifiers, digital integrated circuits and systems, and microcomputers. The general topics of impedance matching, frequency response, feedback, interfacing and the extraction of signal from noise are stressed.

Additional Note: Also offered as PHY485. Credit only granted for PHYS685 or PHYS485.

0101	Daniel Lathrop MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	Seats (Total: 24) CHE 2136 PHY 3321	 Lab
0102	Daniel Lathrop MF 2:00pm - 2:50pm Tu 1:00pm - 4:50pm	Seats (Total: 18) CHE 2136 PHY 3321	 Lab

PHYS709 **Seminar in General Physics; Statistical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHPH709B.

0101	John Weeks Tu 1:15pm - 2:30pm	Seats (Total: 30) IPT 1116

PHYS715 **Chaotic Dynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS601.

Theory and applications of chaos in dynamical systems including such topics as strange attractors, Lyapanov exponents, quasiperiodicity, period doubling, intermittency, crises, fractal basin boundaries, chaotic scattering, KAM tori, and quantum chaos.

0101	Edward Ott TuTh 2:00pm - 3:15pm	Seats (Total: 30) CSI 2118

PHYS721 **Atomic and Optical Physics I (Survey)**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

A survey of topics involving the physics of atoms and their interaction with radiation, including atoms in external fields, lasers, atomic spectroscopy and atomic structure.

0101	Trey Porto, Gretchen Campbell WF 2:30pm - 3:45pm	Seats (Total: 25) ATL 1106

PHYS728 **Seminar in Atomic and Molecular Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Steven Rolston M 11:00am - 12:50pm	Seats (Total: 30) ATL 2400

PHYS738 **Seminar in Experimental Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

0101	Johnpierre Paglione Th 2:00pm - 3:50pm	Seats (Total: 15) PHY 1201

PHYS739 **Seminar in Theoretical Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

0101	Sankar Das Sarma Tu 11:00am - 12:15pm	Seats (Total: 15) PHY 2205

PHYS748 **Seminar in Experimental Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Elizabeth Beise, Carter Hall W 2:30pm - 4:00pm	Seats (Total: 24) PHY 2202

PHYS749 **Seminar in Theoretical Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Xiangdong Ji W 4:00pm - 6:00pm	Seats (Total: 20) PHY 1219

PHYS758E **Seminar in Elementary Particles and Quantum Field Theory; Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Sarah Eno W 4:00pm - 5:50pm	Seats (Total: 25) PHY 1201

PHYS759 **Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Kaustubh Agashe M 3:00pm - 4:00pm	Seats (Total: 15) EGR 3111

PHYS761 **Plasma Physics I: Survey**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS606 and PHYS604.

A detailed study of plasma physics. The first semester treats particle orbit theory, magnetohydrodynamics, plasma waves, and transport phenomena.

0101	James Drake TuTh 11:00am - 12:15pm	Seats (Total: 25) CHE 2136

PHYS769 **Seminar in Plasma Physics**

Credits: 1 Grading Method: Regular, Audit

Class will meet in ERF 1207.

0101	Adil Hassam W 4:00pm - 5:15pm	Seats (Total: 35) PHY 1402

PHYS778 **Seminar in Space and Cosmic Ray Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Eun-Suk Seo M 4:30pm - 5:45pm	Seats (Total: 20) ATL 2400

PHYS798 **Special Problems in Advanced Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798B **Special Problems in Advanced Physics; Physics Colloquium**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Thomas Cohen Tu 3:30pm - 6:00pm	Seats (Total: 160) PHY 1412

PHYS798D **Special Problems in Advanced Physics; Applied Dynamics Seminar**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Daniel Lathrop, Edward Ott Th 12:30pm - 1:30pm	Seats (Total: 10) ERF 1207

PHYS798L **Special Problems in Advanced Physics; Biophysics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Arpita Upadhyaya M 4:00pm - 5:30pm	Seats (Total: 10) CHM 0112

PHYS798T **Special Problems in Advanced Physics; Interdisciplinary Network Science Seminar**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Michelle Girvan, Daniel Serrano F 1:30pm - 2:20pm	Seats (Total: 25) Location: TBA

PHYS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHYS838C **Special Topics in Experimental Solid State Physics; Superconductivity, Quantum Materials and Nanoscience Seminar**

Credits: 2 Grading Method: Regular, Audit

Credit according to work done.

0101	Christopher Lobb M 4:00pm - 5:50pm	Seats (Total: 50) PHY 1201

PHYS839A **Special Topics in Theoretical Solid State Physics; Theory of Low Dimensional Systems**

Credits: 1 Grading Method: Regular, Audit

Credit according to work done.

0101	Sankar Das Sarma F 4:00pm - 7:00pm	Seats (Total: 20) PHY 1201

PHYS859B **Special Topics in Elementary Particles and Quantum Field Theory; Beyond the Standard Model**

Credits: 3 Grading Method: Regular, Audit

Credit according to work done.

0101	Raman Sundrum TuTh 11:00am - 12:30pm	Seats (Total: 15) PSC 3150

PHYS898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLCY Public Policy Fall 2017

PLCY100 **Foundations of Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A survey course, focusing on public policy institutions and analytical issues as well as on overview of key public policy problems. Students will be introduced to public policy as a discipline, with a brief overview of the actors and institutions involved in the process, and familiarize themselves with the kinds of problems typically requiring public action. The course will examine these problems from a multijurisdictional and multisectoral perspective. Specific policy areas examined include education policy, health policy, economic and budgetary policy, criminal justice policy, environmental policy, and national and homeland security policy. The course should permit students to have broad foundational exposure to the field that will give them a solid base for more advanced courses.

0101	Donald Kettl MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) KEY 0106 EDU 1107	Discussion
0102	Donald Kettl MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) KEY 0106 EDU 2101	Discussion
0103	Donald Kettl MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) KEY 0106 EDU 1107	Discussion
0104	Donald Kettl MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) KEY 0106 EDU 2101	Discussion
0105	Donald Kettl MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) KEY 0106 TLF 1103	Discussion

PLCY201 **Leadership for the Common Good**

Credits: 3 Grading Method: Regular General Education: DSHS, DSSP, SCIS

Credit only granted for: PLCY201 or PUAF201. Formerly: PUAF201.

This course is designed to provide undergraduate students an introduction to leadership theory and a chance to practice a core set of practical skills relevant to transformational and collaborative leadership.

Restriction: Must be in the College Park Scholars Public Leadership program; and freshman standing.

0101	Susannah Washburn TuTh 2:00pm - 3:15pm	Seats (Total: 33) CCC 1205
0102	Susannah Washburn TuTh 2:00pm - 3:15pm	Seats (Total: 33) CCC 1205
0103	Susannah Washburn TuTh 2:00pm - 3:15pm	Seats (Total: 34) CCC 1205
FC01	Eric Luedtke TuTh 3:00pm - 4:15pm	Seats (Total: 45) TLF 1126

PLCY203 **Liberty and Justice for All: Ethics and Moral Issues in Public Policy**

Credits: 3 Grading Method: Regular

PLCY 203- Liberty and Justice for All: Ethics and Moral Issues in Public Policy provides each student with an opportunity to develop the ability to think in sophisticated ways about morally difficult policy issues.

0101	Jennifer Littlefield TuTh 12:30pm - 1:45pm	Seats (Total: 55) SHM 2102

PLCY214 **Leading and Investing in Social Change: Re-defining and Experimenting with Philanthropy**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit only granted for: PLCY214, PUAF214 or PUAF359I. Formerly: PUAF359I, PUAF214.

Defines philanthropy as an exploration of how one develops a vision of the public good and then deploys resources (including donations, volunteers, and voluntary associations) to achieve an impact.

0101	Patricia Bory	Seats (Total: 65)
	TuTh 2:00pm - 3:15pm	EAS 0102
	Restricted to students in the iGive Living Learning Program.	

PLCY300 **Governance: Collective Action in the Public Interest**

Credits: 3 Grading Method: Regular

Examination of societal responses to public problems, including actions by government, non-profit and private sector actors, as well as civil society. Students will examine the roles of these various actors, as well as the nature of civic responsibility. The course will examine the various stages of the policy process, asking the following questions: How does something get defined as a problem that requires a public policy response? How do we think about what the options are for this response, and how do we choose among them? What are the factors that contribute to successful policy implementation? How do we evaluate the success of public policies? These questionswill be addressed using examples of current public policy problems, and students will be expected to engage in individual and collaborative work to design responses to those problems.

0101	Miguel Gonzalez-Marcos	Seats (Total: 35)
	W 1:30pm - 4:00pm	TWS 1310

PLCY301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: AGNR301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Scala	Seats (Total: 165)
	TuTh 12:30pm - 1:45pm	LEF 2205

PLCY302 **Leadership: Philosophy, Policy and Praxis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PLCY302 or PUAF302. Formerly: PUAF302.

Leadership as a search for meaning, identity and purpose are explored. Also introduces major philosophical traditions, from the ancient world to the modern one, and encourages students to ground their leadership interests and aspirations in a disciplined process of self-reflection, critical thinking and inquiry.

Restriction: Must be in the Rawlings Undergraduate Leadership Fellows Program.

0101	Eric Luedtke	Seats (Total: 27)
	W 4:15pm - 6:45pm Contact instructor or department for details.	TLF 1126

PLCY304 **Evaluating Evidence: Finding Truth in Numbers**

Credits: 3 Grading Method: Regular

Prerequisite: STAT100.

Enables students to understand the research done by others with a sufficiently skeptical eye to allow them to determine whether the findings of the research are valid given the assumptions made and methods used. This will involve, in part, thinking about the various problems in research design or conduct that could lead to faulty conclusions. It will also involve being able to differentiate between credible sources of information and those that are not objective. At the conclusion of the course, students should be able to differentiate objective evidence from political argumentation.

0101	Michael Busse	Seats (Total: 20)
	M 2:00pm - 4:30pm	TLF 1126

PLCY311 **Women in Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF311, PLCY311 or PUAF359W. Formerly: PUAF359W.

Examines the role of women in the leadership process including the participation of women as activists, voters, advocates, public leaders and as agents of change through various avenues including, among others, public service (elected and appointed), the media, community service, political organizations, and the nonprofit sector.

0101	Anne Kaiser	Seats (Total: 25)
	Tu 4:15pm - 6:45pm	TLF 1126

PLCY313 **Advocacy in the American Political System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF313, PLCY313 or PUAF359C. Formerly: PUAF359C.

Introduces students to the creation of law through the legislative process with a special focus on the Maryland General Assembly.

0101	Gerard Evans	Seats (Total: 120)
	M 2:00pm - 4:35pm	ATL 2324

PLCY349 **Internship in Political Institutions: State and Local**

(Perm req)

Credits: 3-6 Grading Method: Regular

Offers students supervised internship placements in state and local political or public policy organizations.

Also offered as BSOS349.

0101	Jennifer Littlefield	Seats (Total: 5)
	Contact instructor or department for details.	

PLCY359A **Contemporary Issues in Political Leadership and Participation; Asian American Social Policy and Community Advocacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in political leadership and participation.

Also offered as AAST398B. Credit granted for AAST398B or PLCY359A. This course focuses on how Asian and Pacific Americans are represented in government and throughout social policies in the United States. The ways in which racial and gender dynamics intersect with migration policy, community development, and other pressing issues is explored.

0101	Tuyet Duong	Seats (Total: 25)
	TuTh 8:00am - 9:15am	SQH 1107

PLCY359M **Contemporary Issues in Political Leadership and Participation; Leadership in the Information Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in political leadership and participation.

Explores the role of leadership and performance management in public administration. This will include the examination of fundamental principles of performance measurement, the identification and application of different performance measurement techniques and strategies, and the evaluation of best practices within the field. The course will also explore the characteristics of effective, purpose-driven leadership.

0101	Martin O'Malley Th 4:15pm - 6:45pm	Seats (Total: 240) ESJ 0224

PLCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Permission of PLCY-School of Public Policy. Repeatable to 12 credits if content differs. Credit only granted for: PLCY386 or PUAF386. Formerly: PUAF386.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)

PLCY388 **Special Topics in Public Policy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)

PLCY388T **Special Topics in Public Policy; Undergraduate Teaching Assistant Directed Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)

PLCY610 **Quantitative Aspects of Public Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY610 or PUAF610. Formerly: PUAF610.

Introduces statistical methods needed for evaluating and choosing among policy options. Topics include probability; decision-making under uncertainty; the organization, interpretation, and visual display of complex data; prediction and inferences about causality; hypothesis testing; and linear and multiple regression. Develops analytical skills and the ability to apply theory to complex, real-world problems.

0201	Jaganath Sankaran W 4:15pm - 6:45pm M 4:15pm - 6:45pm	Seats (Total: 30) VMH 1203 VMH 1207	 Discussion
0401	Alec Worsnop Th 9:15am - 11:45am M 9:15am - 11:45am	Seats (Total: 30) VMH 1207 VMH 1207	 Discussion

PLCY611 **Quantitative Analysis of Policy Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY611 or PUAF611. Formerly: PUAF611.

Study of a series of problems and the development of quantitative techniques to describe or evaluate the problem. The organization and interpretation of complex data and its use for prediction and inference about casual effects. The definition of objectives, trade-offs among objectives, and allocation of resources to meet objectives. Sensitivity of outcomes to changing conditions.

0101	Seth Weissman W 4:15pm - 6:45pm M 4:15pm - 6:45pm	Seats (Total: 20) VMH 1207 PKT 1221	 Discussion

PLCY620 **Political Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY620 or PUAF620. Formerly: PUAF620.

Examination of politics as a process for allocating scarce resources among claimants for public benefits. Comparision of the allocative model of politics with other distributive processes, such as markets. Comparison of the model with behavior of different political institutions, such as Congress and the presidency. Study of politics as a process with distinctive concepts of rationality. The translation of voter and interest group preferences into public choices. The impact of political decisions on competing constituencies.

Contact department for information to register for this course.

PLCY640 **Microeconomic and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY640 or PUAF640. Formerly: PUAF640.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

0201	Michael Busse Th 1:30pm - 4:00pm Tu 1:30pm - 4:00pm	Seats (Total: 40) VMH 1203 VMH 1203	 Discussion
0401	Michael Busse M 7:00pm - 9:30pm F 4:15pm - 6:45pm	Seats (Total: 40) VMH 1203 PKT 1221	 Discussion

PLCY641 **Macroeconomics and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY641 or PUAF641. Formerly: PUAF641.

Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.

Contact department for information to register for this course.

PLCY650 **Moral Dimensions of Public Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY650 or PUAF650. Formerly: PUAF650.

Explores the moral issues involved in public policy questions; the limits and usefulness of decision-making tools; problems of choosing, justifying and using criteria to judge a program's success and suitability; ethichal issues involving the welfare state and income distribution; and possible obligations beyond one's political community and generation.

Contact department for information to register for this course.

PLCY670 **Public Budgeting & Financial Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLYC670 or PUAF670. Formerly: PUAF670.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

Prerequisites PUAF 610 and 640.

Contact department for information to register for this course.

PLCY671 **Public Sector Finance**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY671 or PUAF671. Formerly: PUAF671.

The goal of this course is to provide a useful overview of basic public sector financial management principles in a simulated managerial situation to midcareer students currently working in government and nonprofit organizations.

Contact department for information to register for this course.

PLCY688A **Topics in Public Policy; Comparative Political Institutions**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Contact department for information to register for this course.

PLCY688E **Topics in Public Policy; Governance: Normative & Political Dimensions**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

PUAF major or permission of instructor.

0101	Miguel Gonzalez-Marcos Th 4:15pm - 6:45pm	Seats (Total: 20) VMH 1203
0201	David Falk W 9:15am - 11:45am	Seats (Total: 20) VMH 1203
0301	Catherine Worsnop Th 9:15am - 11:45am	Seats (Total: 20) VMH 1107
0401	Miguel Gonzalez-Marcos Th 7:00pm - 9:30pm	Seats (Total: 21) VMH 1207

PLCY688G **Topics in Public Policy; Governance: Leadership, Management and Accountability**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

0101	Donald Kettl W 1:30pm - 4:00pm	Seats (Total: 20) VMH 1107

PLCY688I **Topics in Public Policy; Macroeconomic Analysis**

Credits: 2 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	Seth Weissman **Meets August 28, 2017 - October 14, 2017** MW 1:30pm - 4:00pm	Seats (Total: 25) VMH 1207

0201	Seth Weissman **Meets August 28, 2017 - October 14, 2017** MW 7:00pm - 9:30pm	Seats (Total: 25) VMH 1207

PLCY688M **Topics in Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PLCY688R **Topics in Public Policy; Public Finance and Budgeting**

Credits: 2 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	Philip Joyce **Meets October 23, 2017 - December 11, 2017** MW 1:30pm - 4:00pm	Seats (Total: 25) VMH 1207
0201	Juan Martinez Guzman **Meets October 23, 2017 - December 11, 2017** MW 7:00pm - 9:30pm	Seats (Total: 25) VMH 1207

PLCY688Y **Topics in Public Policy; Practicing Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restricted to PUAF majors or instructor permission.

0101	Robert Grimm Tu 4:15pm - 6:45pm	Seats (Total: 22) VMH 1212

0201	Elizabeth Duke Tu 4:15pm - 6:45pm	Seats (Total: 22) VMH 1212
0301	Christopher Foreman Tu 4:15pm - 6:45pm	Seats (Total: 22) VMH 1212
0401	Nathan Hultman Tu 4:15pm - 6:45pm	Seats (Total: 22) VMH 1212

PLCY689A **Public Policy Topics; Acquisitions: Concepts and Management**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restricted to PLCY majors or permission of instructor.

0101	William Lucyshyn W 4:15pm - 6:45pm	Seats (Total: 20) VMH 1101

PLCY689J **Public Policy Topics; Food Economics and Health**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction:: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Alok Bhargava W 1:30pm - 4:00pm	Seats (Total: 20) VMH 1101

PLCY689K **Public Policy Topics; Decision Analysis**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

estriction:: Must be in a major in PUAF-School of Public Policy; or ermission of PUAF-School of PUblic Policy.

0101	Anand Patwardhan	Seats (Total: 20)
	Th 9:15am - 11:45am	VMH 1101

PLCY689Q **Public Policy Topics; Quantitative Methods for Evidence-based Policies**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

0101	Alok Bhargava	Seats (Total: 20)
	W 9:15am - 11:45am	VMH 1107

PLCY689X **Public Policy Topics; Performance Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction: PUAF major or permission of instructor.

Contact department for information to register for this course.

PLCY689Z **Public Policy Topics; Strategic Management for NonProfit and Public Organizations**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Robert Sheehan	Seats (Total: 30)
	W 7:00pm - 9:30pm	VMH 2505

PLCY692 **Leadership Principles and Practices**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY692 or PUAF692. Formerly: PUAF692.

This course will introduce leadership principles and practices to students by focussing on the theory of leadership, different leadership themes and skills, and discussions with practitioners.

Contact department for information to register for this course.

PLCY698A **Selected Topics in Public Affairs; Poverty Measurement and Alleviation**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department.

0101	Douglas Besharov, Douglas Call Th 4:15pm - 6:45pm	Seats (Total: 30) VMH 1101

PLCY698C **Selected Topics in Public Affairs; Intelligence and Policy: Executive, Congressional and Public Dimensions**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy.

0101	William Nolte W 4:15pm - 6:45pm	Seats (Total: 20) VMH 1107

PLCY698G **Selected Topics in Public Affairs; Government Contracting and Pricing**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Contact department for information to register for this course.

PLCY698L **Selected Topics in Public Affairs**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698N **Selected Topics in Public Affairs; Intelligence and National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY698P **Selected Topics in Public Affairs; Information Policy and Technology**

Credits: 1-3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698T **Selected Topics in Public Affairs; Managing Across Sectors**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Elizabeth Duke	Seats (Total: 20)
	M 9:15am - 11:45am	VMH 1203

PLCY698V **Selected Topics in Public Affairs; Managing Social Services**

Credits: 3 Grading Method: Regular

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY698X **Selected Topics in Public Affairs**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY698Z **Selected Topics in Public Affairs; Trends in Counter Terrorism**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699A **Selected Topics Public Policy; Asset Management II**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699B **Selected Topics Public Policy; Intersections of Technology and Policy: Modernizing the Energy System**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Also offered as PLCY699B. Credit granted for PHYS662 or PLCY699B. A broad, practical introduction to the issues and assessment approaches used to evaluate technical innovation in the Energy System. Introduction to the use of Sankey Diagrams, Life Cycle Analysis, Techno-economic analysis, and Equilibrium Economic Analysis, as well as policy factors such as Energy Efficiency Standards, Vehicle Fuel Economy, Feed-in-tariffs and environmental regulations.

0101	Ellen Williams	Seats (Total: 18)
	TuTh 9:30am - 10:45am	IPT 1116

PLCY699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699J **Selected Topics Public Policy; Pathways to Development**

Credits: 3

Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Allen Schick	Seats (Total: 20)
	TuTh 1:15pm - 4:00pm	VMH 1107
	Meets only weeks of Aug 28, Sept 4 & 11, Oct 30, Nov 6-27 and Dec 4.	

PLCY699M **Selected Topics Public Policy; Acquisitions In National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699O **Selected Topics Public Policy; 21st Century Policy Challenges**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699R **Selected Topics Public Policy; Critical Thinking and Analytic Methodology**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699T **Selected Topics Public Policy; Terrorism Analysis: Tools and Practices**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY699W **Selected Topics Public Policy; Policy Engagement Project A**

Credits: 2 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restricted to PLCY majors or permission of instructor.

0101	Toby Egan Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 2101F
	Management & Leadership, Public Sector Financial Management, and Non-Profit/Philanthropy projects.	
0201	Douglas Besharov, Douglas Call Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1203
	Program evaluation and cost-benefit analysis projects with any specialization.	
0211	Douglas Besharov, Douglas Call Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1203
	Program evaluation and cost-benefit analysis projects with any specialization.	
0301	Robert Nelson Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1101
	Environmental, Energy, and other projects.	
0311	Anand Patwardhan Th 1:30pm - 4:00pm	Seats (Total: 20) PKT 1221
	Environmental and Energy projects.	
0401	I M Mac Destler, Jonas Siegel Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 1207
	International security and economic policy projects.	
0411	I M Mac Destler, Jonas Siegel Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 1207
	International security and economic policy projects.	
0501	David Crocker Th 1:30pm - 4:00pm	Seats (Total: 20) PKT 1224
	International development projects.	
0511	Douglas Besharov, Douglas Call Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1203
	Program evaluation and cost-benefit analysis projects with any specialization.	

0521	Angela Bies	Seats (Total: 20)
	Th 1:30pm - 4:15pm	VMH 1101
	For approved students in India travel course.	

PLCY699X **Selected Topics Public Policy; Organizational Behavior**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PLCY700 **U.S. Trade: Policy and Politics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUAF641, PUAF620, and PUAF640. Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY700 or PUAF700. Formerly: PUAF700.

Interplay between government and private interests in shaping official actions that affect international trade. Policy tools available to influence balance, magnitude, and composition of imports and exports. Evolution of executive, congressional and quasi-judicial government institutions under increased U.S. international trade exposure and trade deficit.

0101	Susan Schwab	Seats (Total: 22)
	Th 9:15am - 11:45am	VMH 1203

PLCY711 **Public Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

Contact department for information to register for this course.

PLCY712 **Analysis of Fiscal Conditions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY712 or PUAF712. Formerly: PUAF712.

The financial operations of U.S. government at various levels, with emphasis on local governments. Practical problems in revenue management, including revenue forecasting and cash flow analysis; debt management operations, such as borrowing; intergovernmental financial operations, such as grants management and reporting requirements, and personnel management issues that have a direct bearing on governmental finances.

Contact department for information to register for this course.

PLCY715 **Government and Non-Profit Accounting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY715 or PUAF715. Formerly: PUAF715.

Basic accounting practices of governmental and non-profit organizations. Emphasis on presentation of data in assessing an organization's financial health, financial data by organizations, structuring of accounting information to achieve management control, way in which evolving national standards influence kinds of information organizations have to apply in the future.

Contact department for information to register for this course.

PLCY716 **State and Local Government Budgeting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY716 or PUAF716. Formerly: PUAF716.

State and local government practices as a laboratory for studying public sector financial management.

Contact department for information to register for this course.

PLCY717 **Federal Budgeting: Policy and Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY717 or PUAF717. Formerly: PUAF717.

Budgeting as a political and administrative instrument of government. Development of budgeting, the multiple uses of the budget, including role in fiscal policy and resource allocation, the roles and relationships of major participants, and effects of resource scarcity on budgeting behavior. Emphasis on the federal level.

Contact department for information to register for this course.

PLCY720 **International Security Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY720 or PUAF720. Formerly: PUAF720.

Reviews the principal features of international security as currently practiced. Traces the evolution of contemporary policy beginning with the initiation of nuclear weapons programs during World War II. Particular emphasis is given to experience of the United States and Russia, since the historical interaction between these two countries has disproportionately affected the international security conditions that all other countries now experience.

0101	Jaganath Sankaran	Seats (Total: 20)
	Tu 4:15pm - 6:45pm	VMH 1101

PLCY722 **Terrorism and Democracy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY722 or PUAF722. Formerly: PUAF722.

United States government's decision process for dealing with crises; the options available to a president for deterring and handling incidents of terrorism, and how a president can and should select between the options.

Contact department for information to register for this course.

PLCY724 **Problems of Global Security**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY724 or PUAF724. Formerly: PUAF698W and PUAF724.

Explores the international security implications of globalization, presenting evidence indicating that altered circumstances will eventually induce a major redesign of prevailing security arrangements. Includes three segments: 1) a review of the principal problems that have been the focus of established security policy and would be the context for any major adjustment of policy; 2) an assessment of relationships with the major countries where traditional problems are most acutely present; and 3) a review of the organizing principles that can be expected to emerge in the new situation.

Contact department for information to register for this course.

PLCY734 **Foundations of Social Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy. Credit only granted for: PLCY734 or PUAF734. Formerly: PUAF734.

Provides an overview of government's role in social policy and the history of the development of federal and state policies with respect to welfare, aging, education, and housing. Analyzes current federal institutions and legislation in the same policy areas and the demographic history of the United States. Develops skills in analytic writing and presentation of descriptive data.

Contact department for information to register for this course.

PLCY735 **Health Policy**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PLCY735 or PUAF735. Formerly: PUAF735.

Analyzes the origins, history, status, and future of health care as problems in political and economic theory and as puzzles in policy formation. Considers current American reform controversies in the light of several disciplines and in comparison to foreign experiences and structures.

0101	Robert Sprinkle	Seats (Total: 20)
	Tu 9:15am - 11:45am	VMH 1203

PLCY737 **Strategies of Equality**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY737 or PUAF737. Formerly: PUAF698Y and PUAF737.

Concentrates on the institutional and political means by which disadvantaged segments of the United States population have sought to enhance their social, economic and political prospects. Race, gender and disability are the substantive focal points, with considerable attention given to the challanges of African American socio-political uplift. Also explores legislation, litigation, administration, agitation (i.e. protest), and constitutional reform. Students become familiar with alternative conceptions of equality and the modes of argument employed in different institutional and political contexts.

0101	Christopher Foreman	Seats (Total: 20)
	W 7:00pm - 9:30pm	VMH 1203

PLCY741 **Global Environmental Problems**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY741 or PUAF741. Formerly: PUAF741.

Suitability of analytic tools for examining global environmental problems, human overpopulation, land abuse, ozone depletion, climate change, acid rain, loss of biological diversity, the scarcity of food, fresh water, energy and nonfuel mineral resources, and health hazards of pollutants toxic metals and radiation.

0101	Anand Patwardhan	Seats (Total: 40)
	Th 4:15pm - 6:45pm	VMH 1207

PLCY744 **Environment and Development**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: PLCY744 or PUAF744. Formerly: PUAF744.

Analyzes sustainable development and its conflicting interpretations. The dominant view, as expressed in the World Bank's 1992 World Development Report, is studied, along with some critical responses. Further readings on issues of population, consumption and development indicators.

0101	Thomas Hilde	Seats (Total: 20)
	W 7:00pm - 9:30pm	VMH 1107

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

0101	Charles Field	Seats (Total: 20)
	M 4:15pm - 6:50pm	VMH 1107

PLCY753 **Advanced Negotiations**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: PUAF752. Credit only granted for: PUAF698C, PUAF753 or PLCY753. Formerly: PUAF698C and PUAF753.

Deepens the student's negotiation and leadership skills for managing differences between individuals and groups. Cover conflict, escalation, dealing with intractable conflicts, sustaining agreements in inter-group conflicts, and the effects of trauma on negotiations.

Contact department for information to register for this course.

PLCY770 **Seminar in Housing and Community Development Strategies**

Credits: 3

Grading Method: Regular,
Audit

Restriction: Must be in a major in PLCY-School of Public Policy. Credit only granted for: PLCY770 or PUAF770. Formerly: PUAF770.

Detailed examination of community and social policy issues relating to the construction and management of affordable housing.

Contact department for information to register for this course.

PLCY771 **Housing and Community Development Overview**

Credits: 3

Grading Method: Regular,
Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY771 or PUAF771. Formerly: PUAF771.

An overview of the housing development process. Community development context, financial analysis, analytical tools including microcomputer applications, architectural and design issues, engineering constraints.

Contact department for information to register for this course.

PLCY772 **Housing Finance**

Credits: 3

Grading Method: Regular,
Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY772 or PUAF772. Formerly: PUAF772.

Fundamentals of housing investment analysis. Structuring feasibility analyses, appraisals, pro forma statements, return on investment, leverage analysis, underwriting ratios, taxation and syndication.

Contact department for information to register for this course.

PLCY773 **Housing Clinic**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY773 or PUAF773. Formerly: PUAF773.

Issues and strategies applicable to urban, suburban, and rural areas. Field experience and a team exercise, using the case study method, will give an opportunity for concrete application of the concepts to a specific set of community problems.

Contact department for information to register for this course.

PLCY774 **Asset Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development. Credit only granted for: PLCY774 or PUAF774. Formerly: PUAF774.

Asset manager's role at each stage of the property's life cycle and property analysis, including cash flow debt and staffing. Topics include capital needs; major building systems, costs and useful lives; marketing and outreach; and anti-crime strategies. Field trips to problem properties to perform cost/benefit analysis, diagnose potential cures, and prepare action plans.

Contact department for information to register for this course.

PLCY780 **The American Foreign Policy-Making Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY780 or PUAF780. Formerly: PUAF780.

Survey and analysis of the governmental institutions and processes which shape U.S. global engagement on national security and international economic issues. Particular emphasis is given to executive-congressional relations and the broader domestic roots of foreign policy.

0101	I M Mac Destler	Seats (Total: 20)
	M 1:30pm - 4:00pm	VMH 1203

PLCY781 **International Economic Policy**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY781 or PUAF781. Formerly: PUAF781.

Issues and choices facing the United States in today's global economy. Primary, but not exclusive, emphasis is given to "competitive interdependence" among advanced industrial societies.

0101	Phillip Swagel M 4:15pm - 6:45pm Th 4:15pm - 6:45pm	Seats (Total: 20) VMH 1203 PKT 1221	Discussion
0201	Phillip Swagel W 9:15am - 11:45am	Seats (Total: 20) VMH 1207	

PLCY783 Development and Foreign Aid

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY783 or PUAF783. Formerly: PUAF698Q and PUAF783.

Examines the empirical, conceptual, and ethical dimensions of international development policies and U.S. foreign aid. What is the present character of development in poor countries/regions? How should development be conceived? What development strategies are best? What is and should be the purpose of U.S. foreign aide and development assistance?

0101	Chloe Schwenke Tu 7:00pm - 9:30pm	Seats (Total: 20) VMH 1107

PLCY790 Project Course

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PLCY798A Readings in Public Policy

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798B **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY798C **Readings in Public Policy; Science, Technology and International Security**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restricted to PLCY majors or permission of instructor.

0101	Kathleen Vogel	Seats (Total: 20)
	Tu 7:00pm - 9:30pm	VMH 1101

PLCY798F **Readings in Public Policy; Environmental Finance Strategies and Solutions**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PLCY798N **Readings in Public Policy; Energy Economics**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Benjamin Schlesinger	Seats (Total: 20)
	M 9:15am - 11:45am	VMH 1107

PLCY798Y **Readings in Public Policy; Nonprofit Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: PUAF major or permission of instructor.

0101	Angela Bies	Seats (Total: 20)
	Th 4:15pm - 6:45pm	VMH 1107

PLCY798Z **Readings in Public Policy; Qualitative Research Methods and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Peter Reuter	Seats (Total: 20)
	M 9:15am - 11:45am	VMH 1101

PLCY898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLCY899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLSC Plant Sciences Fall 2017

PLSC101 **Introductory Crop Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Major crop plants including: anatomy, physiology, morphology, history, use, adaptation, culture, improvement and economic importance.

Students must pay a $50.00 laboratory materials fee.

0101	William Phillips MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0102	William Phillips MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0103	William Phillips MWF 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0104	William Phillips MWF 10:00am - 10:50am M 1:00pm - 2:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab

PLSC115 **How Safe is Your Salad? The Microbiological Safety of Fresh produce**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS, SCIS

Recommended: PLSC100, PLSC101, or BSCI105; or (BSCI170 and BSCI171).

As food is produced in larger quantities and made to travel longer distances, keeping our food safe in this day and age is an ever growing challenge. This course will focus on the question of what it takes to grow and maintain safe fruits and vegetables, as food travels along the path from the farm to your fork. Food safety of fresh produce will be discussed from the public health, agricultural, economical and policy perspectives.

0101	Shirley Micallef Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 30) PLS 1130 PLS 1119	 Discussion
0102	Shirley Micallef Tu 11:00am - 12:15pm Th 12:30pm - 1:45pm	Seats (Total: 30) PLS 1130 PLS 1119	 Discussion

PLSC120 **Mushrooms and Molds**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Students will learn about how essential fungi (mushroom, molds, and alikes) are in this world and how they affect our daily lives. They will learn how fungi interact with animals, plants and other organisms in positive and negative ways. Also, they will study the importance of fungi in biotechnology and food and how they have shaped many societies throughout history.

0101	Burkhard Schulz TuTh 9:30am - 10:45am	Seats (Total: 25) PLS 1115	
	The course will have a blended instruction format with online and in-class lectures, and one or two field outings and laboratories."		

PLSC125 **Feeding Nine Billion by 2050: Food Security and Crop Protection**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

A big question in global food security is "how can we feed 9 billion people in 2050?" This course will stimulate creative thinking about possible solutions particularly from the crop production perspective. The instructor will introduce the concept of food security and different dimensions of this complex issue, identify major constraints to food security, and discuss scientific approaches that may be used to meet the grand challenge. Emphasis will be placed on topical and controversial issues such as the impact of biofuel production and GM crops on food security, and novel strategies that can enhance crop protection for improving food security.

0101	Kate Tully, Shunyuan Xiao Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PLS 1119	Discussion
0102	Shunyuan Xiao, Kate Tully Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PHY 4221	Discussion
0103	Shunyuan Xiao, Kate Tully Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 35) MMH 1400 PLS 1117	Discussion

PLSC201 **Plant Structure and Function**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100; or PLSC101. And CHEM103; or CHEM131. And CHEM132.

The relationship between plant structure and function and how the environment influences changes in the physiology to control higher plant growth and development are studied.

0101	Jianhua Zhu MWF 10:00am - 10:50am M 3:30pm - 6:15pm	Seats (Total: 16) PLS 1119 PLS 1153	 Lab
0102	Jianhua Zhu MWF 10:00am - 10:50am W 3:30pm - 6:15pm	Seats (Total: 16) PLS 1119 PLS 1153	 Lab

PLSC203 **Plants, Genes and Biotechnology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Prerequisite: BSCI103 or BSCI105; or (BSCI170 and BSCI171).

An overview of the history, genetics, and reproductive mechanisms for agronomic and horticultural plants that examines mechanisms of genetic improvement ranging from traditional plant breeding to tissue culture and genetic engineering. Social and political issues such as germplasm preservation and international intellectual property rights will also be discussed.

0101	Gary Coleman TuTh 2:00pm - 3:15pm	Seats (Total: 23) PLS 1162	

PLSC205 **Introduction to Turf Science and Management**

Credits: 4 | Grading Method: Regular | General Education: DSNL

Credit only granted for: PLSC205 or PLSC305. Formerly: PLSC305.

Principals of turf science and culture with emphasis on turfgrass anatomy, morphology, and physiology. The role of cultural interventions in achieving specific aesthetic and functional objectives is examined for multiple turf uses. Pest problems typically encountered in turfgrass management are also covered.

0101	Mark Carroll, Geoffrey Rinehart MWF 1:00pm - 1:50pm Tu 2:00pm - 3:50pm	Seats (Total: 16) PLS 1117 PBR 1102	 Lab
0102	Geoffrey Rinehart, Mark Carroll MWF 1:00pm - 1:50pm W 3:00pm - 4:50pm	Seats (Total: 16) PLS 1117 PBR 1102	 Lab

PLSC253 **Woody Plants for Mid-Atlantic Landscapes I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100.

A field and laboratory study of trees, shrubs, and vines used in ornamental plantings. Major emphasis is placed on native deciduous plant materials.

0101	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0102	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1140	 Lab
0103	Lea Johnson WF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1140	 Lab

PLSC389 **Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit will be given for practical work carried out at one or more horticultural, agronomic, landscape industries, botanical gardens, or arboreta under formally arranged internships.

0101	Mark Carroll W 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 20) PLS 1119

PLSC399 **Special Problems in Plant Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

Contact department for information to register for this course.

PLSC402 **Sports Turf Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC305 and PLSC401.

Sports turf management, including design, construction, soil modification, soil cultural techniques, pesticide use, fertilization, and specialized equipment.

0101	Thomas Turner	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PBR 1102

PLSC404 **Plant Metabolism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or PLSC201. And CHEM231 and CHEM232; or CHEM237; or permission of AGNR-Plant Science & Landscape Architecture department.

An introduction to biochemistry and metabolism in plants and fungi, covering the biosynthesis of compartments in plant and fungal cells with biological molecules such as nucleic acids, amino acids and lipids. Energy flow processes such as photosynthesis, carbohydrate metabolism and respiration, are covered in the course. The integration of different pathways in plant development and responses to environmental stresses will be discussed.

0101	Yiping Qi	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PLS 1168

PLSC405 **Agroecology**

Credits: 3 Grading Method: Regular

Prerequisite: At least one course in ecology; or permission of instructor. Recommended: BSCI361 or PLSC471; or any BSCI or ENST ecology course. Credit only granted for: PLSC405 or PLSC605. Additional information: Class will be held on campus, with two day-long field trips to local farms.

How can we balance the multiple, and often competing objectives of sustainable agricultural intensification to promote both agricultural productivity and human wellbeing? The answer to this question requires a transdisciplinary, agroecological perspective. Agroecology is the integrative study of the ecology of the entire food system, encompassing ecological, economic and social dimensions. This course is designed to introduce various topics in agroecology (e.g. organic agriculture, biodiversity, the Farm Bill). We will take an ecosystems approach to the study of agriculture that will enable students to analyze the environmental, social, and economic interconnections within various types of agricultural systems locally and globally.

0101	Kate Tully	Seats (Total: 12)
	TuTh 2:00pm - 3:15pm	PLS 1164

PLSC420 **Principles of Plant Pathology**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM132, and PLSC201; or students who have taken courses with comparable content may contact the department.

An introduction to the causal agents, nature and management of plant diseases with particular attention paid to economically important diseases of horticultural and agronomic crops.

0101	Nidhi Rawat, Shunyuan Xiao, James Culver TuTh 1:00pm - 2:15pm Tu 2:30pm - 5:15pm	Seats (Total: 18) PLS 1111 PLS 1153	 Lab
0102	James Culver, Nidhi Rawat, Shunyuan Xiao TuTh 1:00pm - 2:15pm Th 2:30pm - 5:15pm	Seats (Total: 18) PLS 1111 PLS 1153	 Lab

PLSC433 **Technology of Fruit and Vegetable Production**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC201, NRSC411, PLSC271, and PLSC202; or students who have taken courses with comparable content may contact the department. Corequisite: BSCI442. Recommended: ENST200. Restriction: Junior standing or higher. Credit only granted for: NRSC411 or PLSC433.

A critical analysis of research work and application of the principles of plant physiology, chemistry and botany to practical problems in the commercial production of fruit and vegetable crops.

0101	Christopher Walsh MW 11:00am - 12:15pm W 1:00pm - 4:50pm	Seats (Total: 10) PLS 1119 PLS 0123	 Lab

PLSC453 **Weed Science**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Weed identification, ecology, and control (cultural, mechanical, biological, and chemical methods).

0101	William Phillips TuTh 9:30am - 10:45am Tu 11:00am - 12:50pm	Seats (Total: 24) PLS 1113 PLS 1153	 Lab

PLSC605 **Advanced Agroecology**

Credits: 3 Grading Method: Regular

Prerequisite: At least one course in ecology or instructor permission. Recommended: BSCI361 or PLSC471; or any BSCI or ENST ecology course. Additional information: Class will be held on campus, with two day-long field trips to local farms.

How can we balance the multiple, and often competing objectives of sustainable agricultural intensification to promote both agricultural productivity and human wellbeing? The answer to this question requires a transdisciplinary, agroecological perspective. Agroecology is the integrative study of the ecology of the entire food system, encompassing ecological, economic and social dimensions. This course is designed to introduce various topics in agroecology (e.g. organic agriculture, biodiversity, the Farm Bill). We will take an ecosystems approach to the study of agriculture that will enable students to analyze the environmental, social, and economic interconnections within various types of agricultural systems locally and globally. Students will be required to plan and execute group discussions and learning activities.

0101	Kate Tully	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	PLS 1164

PLSC608 **Research Methods**

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department. Repeatable to 6 credits if content differs. Credit will be granted for only one of the following: AGRO608, NRSC608, or PLSC608. Formerly NRSC608.

0101	Angus Murphy	Seats (Total: 20)
	M 3:30pm - 5:30pm	PLS 2107

PLSC608T **Research Methods; Supervised Teaching**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department.

0103	Angus Murphy Contact instructor or department for details.	Seats (Total: 5)
0104	Mark Carroll Contact instructor or department for details.	Seats (Total: 5)
6201	Jianhua Zhu Contact instructor or department for details.	Seats (Total: 5)

PLSC619 **Seminars in Plant Science and Landscape Architecture**

Credits: 1 Grading Method: Regular, Audit

Enhancement of student learning and enrichment of student curriculum for the Plant Science Graduate Program through a combination of research seminar attendance and post-seminar discussion. Research seminars will be given by prominent scientists in the field of plant sciences and post-seminar discussions will be facilitated by the instructor along with student discussion leaders.

0101	Joseph Roberts Th 4:00pm - 5:50pm	Seats (Total: 15) PLS 1140

PLSC689Q **Special Topics; Microbiology of Agricultural Systems**

Credits: 1 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Various aspects of microbiology will be covered as it pertains to agricultural systems. Topics to be covered include microbial diversity in soil, the rhizosphere and the phyllosphere, the impact and role bacteria play in promoting plant growth and suppressing disease, and the ecological functions of bacterial communities in soil as drivers of biogeochemical cycling of nutrients and greenhouse gas emissions and in the aerial portions of a plant. All these topics will be discussed from an agricultural perspective, food security and safety. The course is structured around journal article reviews and discussions to encourage critical thinking and provide the opportunity to bridge concepts and ideas from multiple disciplines. In addition, there will be opportunity for more in-depth literature review and discussion of salien research areas within agricultural microbiology, with specific attention to methodologies and study design.

0101	Shirley Micallef TuTh 9:30am - 10:45am	Seats (Total: 10) EGR 3111

PLSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PORT Portuguese Fall 2017

PORT104 **Intensive Elementary Portuguese**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.

0101	Thayse Lima TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 25) JMZ 2207 KEY 0121

PORT205 **Intermediate Reading and Conversation in Portuguese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: PORT204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Development of spoken Portuguese at intermediate level based on written assignments and exams on readings in a variety of genres.

0101	Thayse Lima TuTh 2:00pm - 3:15pm	Seats (Total: 20) KEY 0100

PORT223 **Portuguese Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Political, social, intellectual, and literary forces shaping culture of contemporary Portugal from the formation of the country to the present. Taught in English.

0101	Regina Igel TuTh 12:30pm - 1:45pm	Seats (Total: 30) JMZ 2207

PORT386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department; and junior standing or higher.

Contact department for information to register for this course.

PORT388C **Special Topics in Brazilian Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Exposes students to textual, visual and aural products to explore how Brazil has been shaped from within and abroad. Focuses on the broad meaning and impact on Brazilian culture and social formation. Taught in English.

0101	Regina Igel TuTh 11:00am - 12:15pm	Seats (Total: 30) JMZ 2122

PORT399 **Independent Study in Portuguese**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature under the supervision of a faculty member of the department.

Contact department for information to register for this course.

PSYC Psychology Fall 2017

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available. The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 **Introduction to Psychology**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSNS

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Discussion sections do not meet until after first lecture. Research requirement: may involve participation in research.

Click here for more course information.

0101	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 8:00am - 8:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0102	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0103	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0104	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 2:00pm - 2:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0105	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0106	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 8:00am - 8:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0107	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0108	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0109	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 2:00pm - 2:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0110	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0201	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0202	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0203	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	HBK 0109	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0204	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0205	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0206	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0207	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0208	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	HBK 0109	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0209	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0210	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
FC01	Scott Roberts	Seats (Total: 40)	
	MW 7:30pm - 8:45pm	HJP 2242	
	Restricted to students in Freshmen Connection.		
FC02	Scott Roberts	Seats (Total: 40)	
	MW 6:00pm - 7:15pm	HJP 2242	
	Restricted to students in Freshman Connection.		

PSYC123 The Psychology of Getting Hired

Credits: 1 Grading Method: Regular

Designed to introduce students to the science behind the hiring process and to prepare individuals with the academic and practical training required. Together we will explore psychological principles that influence the selection process and how individuals can apply them for the competitive edge that makes others Fear the Turtle!

0101	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE	
0201	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE	
0301	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE	
0401	Rebecca Weir Class time/details on ELMs	Seats (Total: 100) ONLINE	

PSYC200 **Statistical Methods in Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: PSYC100. And 1 course with a minimum grade of C- from (MATH107, MATH111, MATH120, MATH130, MATH136, MATH140, STAT100); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

A basic introduction to quantitative methods used in psychological research.

Restricted to PSYC, ENSP and BSCI majors. All other majors require permission in BPS 1107.

Click here for sample course syllabus.

0101	Tracy Tomlinson TuTh 8:00am - 9:15am M 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 28) BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0102	Tracy Tomlinson TuTh 8:00am - 9:15am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 28) BPS 1250 BPS 1228 ONLINE	 Discussion Discussion

0103	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am M 12:00pm - 12:50pm Class time/details on ELMs	BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0104	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am M 2:00pm - 2:50pm Class time/details on ELMs	BPS 1250 BPS 0283 ONLINE	 Discussion Discussion
0105	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 8:00am - 9:15am M 1:00pm - 1:50pm Class time/details on ELMs	BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0201	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am M 9:00am - 9:50am Class time/details on ELMs	BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0202	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am M 10:00am - 10:50am Class time/details on ELMs	BPS 1250 BPS 1232 ONLINE	 Discussion Discussion
0203	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am M 11:00am - 11:50am Class time/details on ELMs	BPS 1250 PLS 1113 ONLINE	 Discussion Discussion
0204	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am M 2:00pm - 2:50pm Class time/details on ELMs	BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0205	Tracy Tomlinson	Seats (Total: 28)	
	TuTh 9:30am - 10:45am M 1:00pm - 1:50pm Class time/details on ELMs	BPS 1250 BPS 1236 ONLINE	 Discussion Discussion

PSYC221 Social Psychology

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

0101	Ryan Curtis TuTh 12:30pm - 1:45pm	Seats (Total: 150) BPS 1250	
0201	Dylan Selterman MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 150) BPS 1250 BPS 1250	 Discussion
FC01	Dylan Selterman TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 34) BPS 1243	

PSYC221H **Social Psychology**

(Perm req)

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Open to students in the University Honors programs only.

0101	Charles Stangor M 2:00pm - 4:30pm	Seats (Total: 15) LEF 1222

PSYC289D **Living the Good Life: The Psychology of Happiness**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, SCIS

0101	Dylan Selterman TuTh 2:00pm - 3:15pm	Seats (Total: 135) BPS 1250

PSYC300 **Research Methods in Psychology Laboratory**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program. Credit only granted for: PSYC300 or PSYC309R. Formerly: PSYC309R.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For PSYC majors only.

0101	Edward Bernat MW 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 16) BPS 1243 EGR 1102	Discussion
0102	Edward Bernat MW 1:00pm - 1:50pm Th 10:00am - 11:50am	Seats (Total: 16) BPS 1243 MTH 0401	Discussion
0103	Edward Bernat MW 1:00pm - 1:50pm Th 2:00pm - 3:50pm	Seats (Total: 16) BPS 1243 ATL 1106	Discussion
0104	Edward Bernat MW 1:00pm - 1:50pm F 10:00am - 11:50am	Seats (Total: 16) BPS 1243 MTH 0106	Discussion
0105	Edward Bernat MW 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 16) BPS 1243 PLS 1158	Discussion
0106	Edward Bernat MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1243 PLS 1158	Discussion
0201	Edward Bernat MW 3:00pm - 3:50pm Th 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1232	Discussion
0202	Edward Bernat MW 3:00pm - 3:50pm F 10:00am - 11:50am	Seats (Total: 16) BPS 1250 BPS 1232	Discussion

0203	Edward Bernat MW 3:00pm - 3:50pm F 12:00pm - 1:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0204	Edward Bernat MW 3:00pm - 3:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0205	Edward Bernat MW 3:00pm - 3:50pm W 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1232	 Discussion
0206	Edward Bernat MW 3:00pm - 3:50pm F 12:00pm - 1:50pm	Seats (Total: 16) BPS 1250 PLS 1162	 Discussion

PSYC301 **Biological Basis of Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105.

Recent advances in neuroscience are radically changing our understanding of how the brain works. The course first introduces the structure of the nervous system and the electrical and chemical signals at the core of brain function. Students then explore how the nervous system gathers and makes sense of information from the world around us. The last portion of the course focuses on plasticity, the concept that our brains are constantly changing, and its implications for nervous system development, memory, sexual behavior, sleep, and other complex behaviors.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Dirk Parham MW 5:00pm - 6:15pm	Seats (Total: 150) BPS 1250	

PSYC302 **Fundamentals of Learning and Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105. Restriction: Restricted to psychology majors during the registration period. All other majors will be placed on a hold file. Credit only granted for: PSYC309F or PSYC302. Formerly: PSYC309F.

Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.

0101	Matthew Roesch	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	BPS 1236

PSYC303 **Professional Development for Psychology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and must have completed 3 additional credits in PSYC courses. Or permission of BSOS-Psychology department. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309C or PSYC303. Formerly: PSYC309C.

An investigation of various career and graduate school opportunities available to psychology majors. Students will learn about a wide range of career fields, will learn how to utilize available resources to pursue career goals, and will take steps to advance their professional identity and development.

0101	Kevin McGann	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

PSYC309K **Special Topics in Psychology; Forensic Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.

SG91	Robin Shusko	Seats (Total: 40)
	M 12:30pm - 1:45pm	BLD3 2206
	Class time/details on ELMs	ONLINE
	Limit to CCJS students at Shady Grove.	

PSYC309R **Special Topics in Psychology; PREP for Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.

For psychology majors enrolled in the Psychology Research Empowerment Program (PREP).

0101	Meg O'Neill	Seats (Total: 20)
	Th 9:30am - 10:45am	BPS 1140B

PSYC318D **Community Interventions: Theory and Research; Community Interventions: Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Survey and critical examination of a problem in the community and related interventions. Analysis of theory and research relevant to the problem. Historical and current trends discussed. A student who has completed PSYC309 must have permission of the department in order to register for PSYC318.

Also offered as WMST498A. For PSYC majors only. Theories and research related to domestic violence and interventions with abused women will be studied, and students will think critically regarding ethical and multicultural issues related to domestic violence. Community resources and strategies for ending domestic violence in the United States will be discussed.

0101	Karen O'Brien	Seats (Total: 35)
	MW 8:00am - 9:15am	PLS 1111

PSYC330 **Child Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program. Credit only granted for: PSYC309B or PSYC330. Formerly: PSYC309B.

Etiology, diagnosis, prevention and treatment of emotional disorders of childhood and adolescence.

For PSYC majors only.

0101	Julia Shadur	Seats (Total: 100)
	TuTh 11:00am - 12:15pm	BPS 1243

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Ryan Curtis TuTh 9:30am - 10:45am	Seats (Total: 150) ESJ 2204

PSYC336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: WMST336. Credit only granted for: PSYC336 or WMST336.

A survey of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students only. Students will be expected to meet face-to-face during class time to comp lete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Elizabeth Sauber MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 110) BPS 1250 ONLINE

PSYC338D **Special Topics in Study Abroad III; Developmental Disorders**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338L **Special Topics in Study Abroad III; Dynamic Project Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338N **Special Topics in Study Abroad III; Neuroscience of Fear**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC341 **Introduction to Memory and Cognition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200 and PSYC300.

An introduction to the basic concepts of cognitive psychology, the scientific study of mental processes. Topics will include perception, attention, memory, reasoning, and language, with an emphasis on how findings from cognitive psychology can inform real-life thinking (e.g., memory strategies for studying, pitfalls of multitasking, and how/why our memories can fail us).

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Brooke Okada	Seats (Total: 117)
	TuTh 12:30pm - 1:45pm	BPS 1243

PSYC353 **Adult Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Jack Blanchard	Seats (Total: 117)
	MW 8:00am - 9:15am	BPS 1243

PSYC354 **Cross-Cultural Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100.

What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.

Click here for sample course syllabus.

0101	Nazish Salahuddin	Seats (Total: 150)
	MWF 10:00am - 10:50am	ESJ 1224

PSYC355 **Developmental Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Elizabeth Redcay	Seats (Total: 150)
	TuTh 11:00am - 12:15pm	ESJ 2204

PSYC361 **Survey of Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization); organizational psychology (motivation, leadership, job attitudes); and productivity in the work place (performance appraisal, absenteeism, turnover). The role that the larger environment plays in influencing work behaviors and work attitudes.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	James Grand	Seats (Total: 70)
	TuTh 9:30am - 10:45am	TYD 2106

PSYC389 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Internship in psychology-related fields.

For PSYC majors only. A course for undergraduate psychology majors to earn academic credit for an approved psychology-related internship experience. Information about the course may be obtained in BPS1107, or by contacting the instructor. Restricted to PSYC majors only.

0101	Steven Young	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC403 **Animal Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301.

Reviews the theoretical framework underlying the study of animal behavior. The genetic, hormonal and physiological basis of behavior, and the relation to ecological and evolutionary processes will be discussed using examples that range from invertebrate animals to humans.

For PSYC majors only.

Contact department for information to register for this course.

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

Contact department for information to register for this course.

PSYC407 **Behavioral Neurobiology Laboratory**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC301; and permission of instructor. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

How does the nervous system control behavior? We will address this question using simple behavioral experiments combined, in some exercises, with microsurgery and electrode recordings in the nervous system. Concepts studied will include CNS plasticity, the role of proprioception in controlling movement, cortical processing and the myth multitasking, sensory resolution by measuring receptive field sizes, activity of simple neural circuits controlling escape from predators, and the effects of neuromodulators on aggression. Animals used are all invertebrates.

Permission required (contact professor, ddyager@umd.edu)

Click here for sample course syllabus.

0101	David Yager MW 9:00am - 9:50am M 2:00pm - 5:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab
0201	David Yager MW 9:00am - 9:50am W 2:00pm - 5:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab
0301	David Yager MW 9:00am - 9:50am Tu 2:00pm - 5:00pm	Seats (Total: 8) BPS 0140 BPS 0263	 Lab

PSYC409 **Topics in Neurosciences Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Current research in neurosciences will be presented, read, and discussed. Emphasis will change each term.

For students in the neuroscience minor. Research presentations on selected topics in neuroscience. Review and discussion of background readings related to research presentations take place on alternate weeks. Restricted to students in the neuroscience minor.

0101	Gregory Ball, Farrah Madison	Seats (Total: 30)
	W 2:00pm - 3:50pm	MOR 1101

PSYC411 **Introduction to Functional Magnetic Resonance Imaging**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PSYC200, PSYC301, and PSYC300. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309N or PSYC411. Formerly: PSYC309N.

An introduction to functional magnetic resonance imaging (fMRI). Students will be taught about formulating testable hypotheses with fMRI, utilizing basic methods in fMRI studies, and understanding existing limitations of fMRI studies in the literature.

0101	Luiz Pessoa	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	BPS 1232

PSYC414 **Science of Sleep and Biological Rhythms**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit, Sat-Fail

Prerequisite: Permission of instructor; or (PSYC100 and PSYC301). Restriction: Must be in a major within the BSOS-Psychology department; and restricted to psychology majors during the registration period. All other majors will be placed on a hold file.

Sleep is a powerful, inescapable, misunderstood, and mysterious presence in our lives. The course will begin with a review the of the basics of sleep and biological rhythms with a focus on the underlying neurobiology. The bulk of the semester will be in-depth discussions of topics in sleep and circadian rhythms primarily chosen by the students. A few examples: narcolepsy, sleep in primitive cultures, lucid dreaming, racial and cultural differences in sleep and sleep disorders, the biology of sleep and circadian rhythms during adolescence, CNS control of dreaming, sleep and states of consciousness, sleeping to remember vs. sleeping to forget, legal ramifications of parasomnias, e.g. sleepwalking, and the relationships between sleep deprivation and obesity.

Not recommended for students who have taken HONR209O.

0101	David Yager MWF 11:00am - 11:50am	Seats (Total: 25) CHM 1228	

PSYC420 **Experimental Psychology: Social Psychology Laboratory**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC221. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A laboratory course to provide a basic understanding of experimental method in social psychology and experience in conducting research on social processes.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Brandon Terrizzi MW 10:00am - 10:50am Th 12:00pm - 1:50pm	Seats (Total: 13) BPS 1236 BPS 0140	 Lab
0102	Brandon Terrizzi MW 10:00am - 10:50am Th 2:00pm - 3:50pm	Seats (Total: 12) BPS 1236 BPS 0140	 Lab
0201	Edward Lemay MW 11:00am - 11:50am F 10:00am - 11:50am	Seats (Total: 13) BPS 1238 BPS 0140	 Lab
0202	Edward Lemay MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 12) BPS 1238 BPS 0140	 Lab

PSYC424 **Communication and Persuasion**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PSYC221 and PSYC200.

Effect of social communication upon behavior and attitudes. Theory and research concerning attitude change and social influence.

SG91	Edward Pallas M 9:30am - 12:00pm *Limit to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225

PSYC425 **Psychology and Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100, PSYC200, and PSYC300. Restriction: Must be in Psychology program. Credit only granted for: PSYC309K, PSYC325, or PSYC425. Formerly: PSYC309K.

An introduction to the intersection of psychology and the criminal justice sytem, known as the field of legal psychology. The material covered will span the course of the criminal justice process and examine each aspect from a psychological perspective beginning with profiling and moving on to eyewitness memory and judgements through perpetrator memories and interrogation techniques. These apsects will be evaluated with a research lens as well as an applied outlook.

0101	Tracy Tomlinson TuTh 12:30pm - 1:45pm	Seats (Total: 30) BPS 1232

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

Restricted to undergraduate PSYC majors only. Students will be expected to meet face-to-face during class time to complete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Nazish Salahuddin MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 45) BPS 1236 ONLINE
0201	Derek Iwamoto TuTh 2:00pm - 3:15pm	Seats (Total: 45) BPS 1236

PSYC433 **Basic Helping Skills: Research and Practice**

Credits: 4 Grading Method: Regular

Prerequisite: PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits; and must not have completed or be concurrently enrolled in EDCP 310. Credit only granted for: EDCP210, EDCP310, or PSYC433.

Theories and research regarding effective helping relationships, with a focus on applications to counseling and psychotherapy. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Attendance in labs is mandatory and contributes to the course grade; thus, students should only enroll in a lab section that they will be able to attend consistently.

Restricted to undergraduate PSYC majors who have completed 85 credits.

Click here for sample course syllabus.

0101	Clara Hill M 10:00am - 11:50am W 9:00am - 10:50am	Seats (Total: 12) TWS 0320 BPS 1228	 Lab
0102	Clara Hill M 10:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 12) TWS 0320 BPS 1234	 Lab
0103	Clara Hill M 10:00am - 11:50am W 1:00pm - 2:50pm	Seats (Total: 12) TWS 0320 BPS 1234	 Lab
0104	Clara Hill M 10:00am - 11:50am W 3:00pm - 4:50pm	Seats (Total: 12) TWS 0320 BPS 1234	 Lab
0105	Clara Hill M 10:00am - 11:50am Th 2:00pm - 3:50pm	Seats (Total: 12) TWS 0320 ESJ B0320	 Lab
0106	Clara Hill M 10:00am - 11:50am F 9:00am - 10:50am	Seats (Total: 12) TWS 0320 BPS 1234	 Lab
0107	Clara Hill M 10:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 12) TWS 0320 PLS 1164	 Lab

0108	Clara Hill M 10:00am - 11:50am F 1:00pm - 2:50pm	Seats (Total: 12) TWS 0320 BPS 1234	 Lab
0109	Clara Hill M 10:00am - 11:50am F 1:00pm - 2:50pm	Seats (Total: 12) TWS 0320 BPS 1228	 Lab

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Restricted to undergraduate PSYC majors only.

Click here for sample course syllabus.

0101	Andres De Los Reyes MWF 11:00am - 11:50am	Seats (Total: 75) TWS 1310

PSYC437 **The Assessment and Treatment of Addictive Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and 9 credits in PSYC courses. Credit only granted for: PSYC309E (taken in the Winter Term) or PSCY437. Formerly: PSYC309E.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

0101	Cristina Risco TuTh 5:00pm - 6:15pm	Seats (Total: 80) TWS 0310

PSYC442 **Psychology of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC341. Restriction: Must be in Psychology program.

Introductory survey of the psychology of language, focusing on the cognitive processes that enable us to produce and understand language. Topics include speech perception, speech production, syntactic processing, language development, language disorders, and the brain bases of language.

Contact department for information to register for this course.

PSYC445 **The Psychology of Video Games and Entertainment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200. Restriction: Must be in Psychology program; or permission of BSOS-Psychology department. Credit only granted for: PSYC309V or PSYC445. Formerly: PSYC309V.

An exploration of the diverse elements and theories in the psychology of video games and entertainment. The history and taxonomy of video games, cognitive and affective elements, virtual reality and social presence, video game violence, and educational and ethical issues will be covered.

0101	Kent Norman	Seats (Total: 36)
	MWF 2:00pm - 2:50pm	PLS 1129

PSYC460 **Psychological Foundations of Personnel Selection and Training**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC361 and PSYC200.

An examination of issues and processes involved in the design and evaluation of personnel selection and training programs in a variety of organizational settings: job, person and organizational analysis; organizational choice; development of predictors; evaluation of instructional and training systems; criteria for performance evaluation, promotion and training.

For PSYC majors only.

0101	Paul Hanges	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BPS 0283

PSYC469H **Honors Thesis Proposal Preparation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of honors thesis proposal by preliminary research and literature review. Presentation of formal proposal to the thesis committee.

Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC478 **Independent Study in Psychology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Information about independent study may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Information about research credit may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC489X **Advanced Special Topics in Psychology; Musical Perception and Cognition**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

For students enrolled in the Psychology Honors program. Email lkader@umd.edu to request permission.

0101	Robert Slevc	Seats (Total: 25)
	TuTh 9:30am - 10:45am	BPS 1236

PSYC489Z **Advanced Special Topics in Psychology; Asian American Psychology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Also offered as AAST498J and AMST498Q. Credit only granted for AAST498J, AMST498Q, or PSYC489Z. This course provides students with an understanding of the ecological influences on Asian American psychological well-being. It begins with the individual, covering topics relating to various social identities pertaining to Asian Americans. Moving outward, it highlights family and peer relationships. At the community and cultural level, the course focuses on the process of migration and acculturation. Finally, it concludes with a discussion of social advocacy, service provisions and cultural competency.

0101	Kieu Anh Do	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1215

PSYC499H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In addition to the department and instructor, the director of the honors program may be contacted to obtain a section number. Prerequisite: permission of the thesis advisor. Permission may be obtained in BPS 1147. Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC601 **Quantitative Methods I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: PSYC200; or students who have taken courses with comparable content may contact the department.

A basic course in quantitative/mathematical analysis and statistical methods in psychology with an emphasis on conceptual understanding. Topics include issues in measurement, probability theory, statistical inference and hypothesis testing, parameter estimation, bivariate regression, and correlation.

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

0101	Alison Robey	Seats (Total: 23)	
	TuTh 9:00am - 10:50am	BPS 0283	
	Th 5:00pm - 7:00pm	BPS 0140	Lab

PSYC603 **Introduction to Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PSYC603 or PSYC730. Formerly: PSYC730.

Advanced survey of industrial-organizational psychology, including selection, training, motivation, group processes, leadership, organizational psychology, and organizational theory. Readings stressed and seminar time will be used for lectures, discussion and integration of the reading materials.

PYP1	Kenneth Yusko	Seats (Total: 40)
	Meets August 28, 2017 - November 17, 2017	
	Class time/details on ELMs Contact instructor or department for details.	ONLINE
	Restricted to students in the MPS Industrial/Organizational Psychology program. Students meet in person on even-numbered weeks.	

PSYC604 **Fundamentals of Social Psychology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PSYC604 or PSYC640. Formerly: PSYC640.

A survey of classic and contemporary theories, research and methods in social psychology.

0101	Edward Lemay	Seats (Total: 21)
	W 1:00pm - 3:30pm	BPS 1140B

PSYC612 **Affective Science Perspectives on Temperament & Personality**

Credits: 3 Grading Method: Regular, Audit

Scientific requirements for a personality theory. Postulates and relevant research literature for several current personality theories.

What makes each of us unique? How do these differences contribute to enduring differences in health & wealth? Review work in humans/non-humans aimed at understanding the psychobiological mechanisms underlying trait-like differences in personality (Negative/Positive Emotionality & Self-Control). Discuss phylogenetic/ontogenetic origins of temperment (e.g. Behavioral Inhibition), measurement issues, fundamental dimensions, mechanisms contributing to stability/change, heritability, implications for psychopathology & therapeutic intervention, & implications for public policy. Drill deeply into the neurobiology of fear/anxiety (systems- level & molecular/genetic/epigenetic evidence).

0101	Alexander Shackman	Seats (Total: 24)
	M 9:00am - 11:45am	BPS 1234

PSYC622 **Research Methods in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor. Credit only granted for: PSYC622 or PSYC718. Formerly: PSYC718.

Examines issues and strategies in conceptual systems, designs and methodologies of current research in clinical and community psychology. Readings include critical analyses of published research. Course requirements include preparation of a research proposal for a thesis level study.

PCC1	Michael Meinzer	Seats (Total: 45)
	Meets August 28, 2017 - November 17, 2017	
	Tu 6:00pm - 9:00pm	BPS 0283
	Restricted to students in the Clinical Psychological Science Program.	

PSYC624 **Adult Psychopathology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC624 or PSYC719. Formerly: PSYC719.

Examines the scientific and clinical literature relevant to normal and pathological behavior in adults and associated nosological systems for categorizing psychopathology. Issues relevant to etiology, differential diagnosis, and treatment planning are also considered.

0101	Andrea Chisolm	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	BPS 1140B

PSYC629 **Clinical Laboratory**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

Contact department or instructor for details.

0101	Mary Byrne	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Lea Dougherty	Seats (Total: 10)
	Contact instructor or department for details.	
	Sections will meet in BPS2114.	
0301	Andrea Chisolm	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC638 **Externship in Professional Psychology**

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

For PSYC majors only.

0101	Andres De Los Reyes Contact instructor or department for details.	Seats (Total: 20)
0201	Jonathan Mohr Contact instructor or department for details.	Seats (Total: 25)

PSYC639 **Internship in Professional Psychology**

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment a an intern in a mental setting with a supervisory review of the training experience.

For PSYC majors only.

0101	Andres De Los Reyes Contact instructor or department for details.	Seats (Total: 20)

PSYC643 **Ethical and Professional Issues in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC643 or PSYC719. Formerly: PSYC719.

An overview of the ethical and professional issues involved in psychological research, instruction, and practice, with special attention to advocacy and ethical decision making regarding a variety of primary, secondary, and tertiary clinical/community interventions.

0101	Mary Byrne W 1:00pm - 3:30pm	Seats (Total: 20) BPS 2114B
PCC1	Andrea Chisolm **Meets August 28, 2017 - November 17, 2017** Tu 6:00pm - 9:00pm *Restricted to students in the Clinical Psychological Science Program.*	Seats (Total: 35) BPS 1140B

PSYC644 **Basic Foundation of Clinical Interventions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).

General introduction to behavior theory and the basic behavioral principles that underlie behavior therapy. Provides an introduction to the philosophical, theoretical and empirical contributions of basic behavior analysis as they relate to behavior therapy, including examples of how behavior therapy is disconnected from its roots.

PCC1	Andrea Chisolm	Seats (Total: 40)
	Meets August 28, 2017 - November 17, 2017	
	Th 6:00pm - 9:00pm	BPS 1140B
	Restricted to students in the Clinical Psychological Science Program.	

PSYC651 **Writing and Critical Thinking**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in and have completed 4 terms of the Clinical Psychological Science MPS program.

A capstone experience to integrate knowledge learned throughout the program and improve critical thinking and research writing skills. This will be done through the production of a major research paper in an area relevant to the current or future career goals of the student and by emphasizing critical thinking skills.

PCC1	Jack Blanchard, Michael Meinzer	Seats (Total: 35)
	Meets August 28, 2017 - November 17, 2017	
	Th 6:00pm - 9:00pm	BPS 1236
	Restricted to students in the Clinical Psychological Science Program.	

PSYC652 **Analytical Thinking: Statistical Methods at Work**

Credits: 3 Grading Method: Regular, Audit

Additional information: Students will be taught how to conduct analyses in R, SPSS, SAS, Stata, and excel; students are encouraged to practice analyses on at least two of these programs.

Personal and organizational growth begins with asking and answering great questions. Correspondingly, this course begins with demonstrations of how to translate business questions into research questions. Statistical methods used to answer business questions are taught first conceptually, then computationally using statistical software. This course emphasizes interpreting results, the regression model, and other issues salient to business research, such as handling large datasets. Students will be provided with a simulated dataset that they will use in learning how to frame and answer business questions using the techniques covered in this course. At the conclusion of this course, students will be required to provide an executive-level presentation on the business question, their findings, and resulting implications.

PYP1	Juliet Aiken	Seats (Total: 40)
	Meets August 28, 2017 - November 17, 2017	
	W 4:30pm - 8:30pm Class time/details on ELMs	Location: TBA ONLINE
	Restricted to students in the MPS Industrial/Organizational Psychology program. Students meet in person on odd-numbered weeks.	

PSYC660 **Performance Management, Compensation, and Benefits**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course draws together content on organizational behavior, selection, assessment, development, employee relations, and compensation, among other topics. Students in this course will learn about how to align organizational reward systems, including selection, development, performance appraisal, feedback, and compensation systems. This course will pull from current organizational research and theory on issues ranging from work motivation, employee retention, and feedback processes to issues of organizational strategy and culture.

PYP1	Kenneth Yusko	Seats (Total: 40)
	Meets August 28, 2017 - November 17, 2017	
	W 5:00pm - 8:30pm Class time/details on ELMs	BPS 1140B ONLINE
	Restricted to students in the MPS Industrial/Organizational Psychology program. Students meet in person on even-numbered weeks.	

PSYC661 **Practicum in IO Psychology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PSYC603, PSYC652, PSYC653, and PSYC654. Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this practicum, students will work on IO-related tasks in an organization and will have the opportunity to apply what they have learned in class to real-world problems. Students will write a reflection paper reviewing what skills they have applied - and developed - while completing this practicum.

PYP1	Juliet Aiken	Seats (Total: 40)
	Meets August 28, 2017 - November 17, 2017	
	W 5:00pm - 8:30pm Class time/details on ELMs	BPS 1140B ONLINE
	estricted to students in the MPS Industrial/Organizational Psychology rogram. Students meet in person on odd-numbered weeks.	

PSYC692 **Assessment in Counseling Psychology I**

Credits: 3 Grading Method: Regular

Prerequisite: PSYC680. Credit only granted for: PSYC692 or PSYC721. Formerly: PSYC721.

Broad introduction to the construction of psychological tests and measures, and experience in test interpretation, with consideration of historical, legal, ethical, and cultural issues surrounding the assessment process.

0101	Jonathan Mohr	Seats (Total: 15)
	M 1:00pm - 4:00pm	BPS 1103

PSYC695 **Ethical and Professional Issues in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Counseling Psychology program. Also offered as: EDCP695. Credit only granted for: EDCP669, EDCP688, EDCP695, PSYC688, or PSYC695. Formerly: EDCP669 and EDCP688.

Exploration of ethical and professional issues in Counseling Psychology

0101	Derek Iwamoto	Seats (Total: 15)
	M 5:00pm - 7:50pm	BPS 2145

PSYC698 **Advanced Didactic-Practicum in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

In depth examination of approaches to or theories about intervention, and supervised experience in the application of those approaches or theories. Each practicum focuses on a particular approach, e.g, psychodynamic, cognitive-behavioral, cross-cultural.

0101	Charles Gelso	Seats (Total: 15)
	W 1:00pm - 4:00pm	BPS 1238

PSYC700 **Theories and Strategies of Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC700 or PSYC711. Formerly: PSYC711.

Introduction to the professional field, examination of pertinent scientific and philosophical backgrounds, and survey of the major theories, principles, and training models in counseling. Correlated laboratory analogue experiences in dyadic and group interrelationships.

0101	Clara Hill	Seats (Total: 8)
	M 2:00pm - 4:50pm	BPS 2145

PSYC764 **Comparative Neuroanatomy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Demonstrations and lectures on the gross, microscopic and ultrastructural morphology of the central nervous system of vertebrates.

0101	William Hodos	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	BPS 1103

PSYC779A **Seminar in Human Performance Theory; Seminar in Cyberpsychology**

Credits: 3 Grading Method: Regular

An examination of human-machine interactions with emphasis on theories and research which focus on human performance capabilities and skills. Topics selected from information processing, communications, human computer interaction, decision making, environmental constraints and automation.

A review of psychological issues relevant in the design and use of automated systems. Cognitive issues include perception, attention, motivation, memory, reasoning, judgment and decision making. Automated systems range from personal computers and mobile devices to global command and control systems.

0101	Kent Norman	Seats (Total: 20)
	Th 2:00pm - 4:30pm	BPS 1140A

PSYC789 **Special Research Problems**

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

PSYC798B **Graduate Seminar; The Psychology of Teaching**

Credits: 1 Grading Method: Regular, Audit

0101	Ryan Curtis	Seats (Total: 20)
	W 1:00pm - 1:50pm	BPS 1232

PSYC798K **Graduate Seminar; Multilevel Theory and Dynamics**

Credits: 1-4 Grading Method: Regular, Audit

An exploration and critical examination of principles, methodologies, and analytical approaches for research involving multilevel systems and dynamics that are relevant to organizational psychology and organizational behavior (OP/OB).

0101	James Grand	Seats (Total: 20)
	Tu 2:00pm - 4:30pm	BPS 1140A

PSYC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PSYC819D **Seminar in Personality and Development; Attachment Theory**

Credits: 3 Grading Method: Regular, Audit

An advanced seminar covering specialized topics.

0101	Jude Cassidy	Seats (Total: 11)
	Th 12:30pm - 3:00pm	BPS 1103

PSYC888A **Research Methods in Psychology; Developmental Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Jude Cassidy	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC889 **Research Methods in Psychology; Cognitive and Neural Systems Seminar**

Credits: 1 Grading Method: Regular, Audit

0201	Matthew Roesch	Seats (Total: 10)
	W 9:00am - 9:50am	BPS 0283

PSYC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

RDEV Real Estate Development Fall 2017

RDEV250 **People, Planet, and Profit: Building Sustainable Places**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Also offered as: ARCH271. Credit only granted for: ARCH271 or RDEV250.

An introduction to building communities, commonly referred to as real estate development and involving multiple professions and disciplines, including Architecture and Urban Design, Community Planning, Historic Preservation, Landscape Architecture, Civil Engineering, Law, Finance and Accounting, that have to come together to build more sustainable places for the future by emphasizing the quadruple bottom line of: (1) financial viability, (2)environmental sensitivity, (3) social/cultural responsibility and (4) sustainable design. The course will provide students with an understanding of the fundamental principles and processes of these disciplines and examine the intersections between them. Students will learn through field studies, lecture, discussion, presentations and interactions with multiple professionals

0101	Heidi Bulich	Seats (Total: 132)
	TuTh 3:30pm - 4:45pm	ESJ 1224

RDEV270 **Tax and Accounting for Real Estate Development**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development; and must not be in a major in the Robert H. Smith School of Business; and must not have completed BMGT210, BMGT220, or BMGT221.

An understanding of key tax and accounting principles and how they impact real estate development for students in the minor in real estate development is the purpose of this course. This course is geared for science, arts and humanities students who otherwise in their major would not take an accounting course as part of their major.

0101	Leslie Mostow	Seats (Total: 25)
	Tu 7:00pm - 9:40pm	ARC 1101

RDEV350 **Real Estate Development: Introduction to Principles, Process, and Practice**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: RDEV250 or ARCH271. Restriction: Must be enrolled in the RDEV Minor; and permission of ARCH-School of Architecture, Planning, & Preservation. Credit only granted for: RDEV150 or RDEV350. Formerly: RDEV150.

An introduction to the basic principles of real estate development: How real estate and communities get built and how value is created. The emphasis is on entrepreneurship and an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.

0101	Tanya Bansal	Seats (Total: 30)
	W 7:00pm - 9:40pm	ARC 1103

RDEV450 **Foundations of Real Estate Finance and Investment**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed RDEV270 or an approved accounting course with a grade of C- or better; and minimum grade of C- in RDEV350. Restriction: Must be enrolled in RDEV Minor; and permission of ARCH-School of Architecture, Planning, & Preservation.

Real Estate Finance and Investment addresses how real estate value is established, the fundamental foundations of the time value of money, as well as more real estate specific applications of return on investment, net operating income, the components of a real estate sources and uses statement, sources of real estate equity and debt financing, commonly used debt ratios and equity returns in real estate, as well as concepts of sensitivity analysis and exit strategies.

0102	Roger Staiger W 4:00pm - 6:40pm	Seats (Total: 25) ARC 0111

RDEV630 **Real Property Finance and Investment**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV630, RDEV688B, or URSP664. Formerly: RDEV688B.

This course is designed to introduce students who have experience in real estate finance or have taken an introductory course in real estate finance and investment to move to this intermediate course that addresses foundational concepts of commercial real estate finance and the measures used in analyzing and evaluating real estate projects. Quantitative analysis and financial modeling comprise the main focus.

0101	Roger Staiger W 7:00pm - 9:40pm	Seats (Total: 19) ARC 1123

RDEV635 **Capital Markets and Real Estate Investments for Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: RDEV630, URSP664, or RDEV688. Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV635 or RDEV688F. Formerly: RDEV688F.

An advanced course in real estate finance focusing on capital markets and complex financing mechanism in the public and private markets for raising capital for development of public, private and public/private projects.

0101	Maria Day-Marshall Th 7:00pm - 9:40pm	Seats (Total: 19) ARC 1123

RDEV688C **Selected Topics in Real Estate Development; Writing Case Studies in Real Estate Development**

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Instructor: TBA Th 7:00pm - 9:40pm	Seats (Total: 6) ARC 1119

RDEV688E **Selected Topics in Real Estate Development; Negotiations and Conflict Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Ronald McDonald M 7:00pm - 9:40pm	Seats (Total: 15) ARC 1127

RDEV688I **Selected Topics in Real Estate Development; Capstone Seminar in Real Estate Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: permission of department and completion of 21 RDEV credits.

0101	Tanya Bansal, Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ASY 3221
0102	Instructor: TBA Tu 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA
0103	Instructor: TBA Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1125
0104	Instructor: TBA Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1123
0105	Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ASY 3215

RDEV688J **Selected Topics in Real Estate Development; Principles of Urban Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: Permission of the department.

0101	Robert McClennan Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103

RDEV688K **Selected Topics in Real Estate Development; Tax and Accounting for Real Estate Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: permission of department.

0101	Leslie Mostow Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1101

RDEV688L **Selected Topics in Real Estate Development; Commercial Leasing**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics in real estate development.

Prerequisite: RDEV688A, RDEV630, and permission of department.

0101	Emily Smith, Christopher Camarra W 7:00pm - 9:40pm	Seats (Total: 25) ARC 1101

RDEV688T **Selected Topics in Real Estate Development; Introduction to Practice and Process**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Steven Shapiro M 7:00pm - 9:40pm	Seats (Total: 30) ARC 1103

RDEV688V **Selected Topics in Real Estate Development; Valuation and Appraisal**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Margaret McFarland Th 7:00pm - 9:40pm	Seats (Total: 7) ARC 1125

RDEV688Z **Selected Topics in Real Estate Development; Introduction to Real Estate Finance Basics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Tanya Bansal, Lisa Wiersma Th 7:00pm - 9:40pm	Seats (Total: 30) ARC 1101

RDEV689M **Current Topics in Real Estate Development; Market Analysis and Valuation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Melina Duggal M 7:00pm - 9:40pm	Seats (Total: 28) ARC 1101

RDEV689W **Current Topics in Real Estate Development; Essential Elements of Developing Hospitality Properties**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

0101	Steven Shapiro W 7:00pm - 9:40pm	Seats (Total: 15) ARC 1125

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req) Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Margaret McFarland Contact instructor or department for details.	Seats (Total: 10)	

RELS Religious Studies Fall 2017

RELS120 Islamic Civilization

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHU

Also offered as: HIST120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Ahmet Karamustafa MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) SYM 0200 TLF 1103	 Discussion
0102	Ahmet Karamustafa MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 20) SYM 0200 TLF 2103	 Discussion
0103	Ahmet Karamustafa MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SYM 0200 KEY 0123	 Discussion
0104	Ahmet Karamustafa MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SYM 0200 TLF 1101	 Discussion

RELS170 Greek and Roman Mythology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: CLAS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 24) MMH 1400 ARC 1103	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 24) MMH 1400 PLS 1111	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 24) MMH 1400 PLS 1117	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 24) MMH 1400 JMP 1109	Discussion
0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 24) MMH 1400 MTH 0305	Discussion
0106	Lillian Doherty MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 24) MMH 1400 ARC 1103	Discussion
0107	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 24) MMH 1400 MTH 0405	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 HBK 1108	Discussion
0202	Lillian Doherty MW 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 26) MMH 1400 ASY 3215	Discussion

0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 MTH 0303	Discussion
0205	Lillian Doherty MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 MTH 0401	Discussion
SF23	Deborah McConnell Contact instructor or department for details.	Seats (Total: 0)	

RELS219Z **Special Topics in Religious Studies; The Devil in the Western Imagination**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in Religious Studies

Also offered as HIST219Z. Credit granted for HIST219Z or RELS219Z. Students take an interdisciplinary look at how the Devil has been thought of and portrayed over time, from the Bronze Age Middle East to the present.

0101	Andrew Kellett Class time/details on ELMs	Seats (Total: 60) ONLINE	

RELS269G **Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS289D **God Wills It! The Crusades in Medieval and Modern Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Also offered as: HIST133. Credit only granted for: HIST133, HIST289D, or RELS289D.

0101	Janna Bianchini MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

0102	Janna Bianchini MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0103	Janna Bianchini MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 0118	Discussion
0104	Janna Bianchini MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1103	Discussion

RELS289I **What is Religion?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHU, DVCC, SCIS

Draws upon examples from a wide variety of religious traditions to explore the question of what religion is and how to best understand it. Engagement with diverse approaches to religion including phenomenology and the study of "the sacred"; sociology and the study of religious communities; and questions of religious experience, ritual, and identity formation.

0101	Maxine Grossman MW 11:00am - 11:50am W 4:00pm - 4:50pm	Seats (Total: 20) SQH 1120 SQH 1107	Discussion
0102	Maxine Grossman MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 BPS 1228	Discussion
0103	Maxine Grossman MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 BPS 1234	Discussion
0104	Maxine Grossman MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 PLS 1168	Discussion

RELS289J **New Explorations in Religious Studies; Jerusalem in Antiquities**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Investigation of critical and innovative responses in Religious Studies Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as JWST289J. Credit will be granted for JWST289J or RELS289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine the development of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the Church of the Holy Sepulchre and the Mount of Olives), and Islam (the Dome of the Rock and the Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion
0102	Matthew Suriano MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 WDS 1130	Discussion
0103	Matthew Suriano MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 ASY 3215	Discussion
0104	Matthew Suriano MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 ASY 3217	Discussion

RELS319W **Special Topics in Religious Studies; World Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in the study of religious history, literature, culture, and thought.

Also offered as PHIL308W. Credit granted for PHIL308W or RELS319W. This course examines five philosophical traditions: Platonism, Islam, Mexica (Aztec), Yoruba, and Confucianism.

0101	James Maffie TuTh 11:00am - 12:15pm	Seats (Total: 25) SKN 1112	

RELS346 **History of Religion in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST255, HIST211, HIST156, HIST254, HIST213, HIST157, or HIST210; or permission of instructor. Also offered as: HIST306. Credit only granted for: HIST306 or RELS346.

A history of religion, religious movements, and churches in America from the early Colonial period to the present, with special attention to the relation between church and society.

0101	Miles Bradbury	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TLF 1103

RELS369C **Special Topics in Study Abroad III; Between Tolerance and Conflict: Jewish, Christians and Muslims in the Iberian Peninsula**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369R **Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS419J **Advanced Topics in Religious Studies; The Aztecs: Human Sacrifice and Conquest**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as HIST429N, LASC448J, and PHIL428N. Credit granted for HIST429N LASC448J, PHIL428N, or RELS419J. We examine the philosophical worldview and daily life of the Aztecs as as well as arguments concerning the legitimacy of the Conquest.

0101	James Maffie	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	KEY 1117

RELS419V **Advanced Topics in Religious Studies; Understanding Jewish Religious Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as JWST419V. Credit granted for JWST419V or RELS419V. Explores the concept of "religious experience" -- including mysticism, heavenly ascents, and altered consciousness -- and considers whether such experiences are central to the Jewish religious tradition. Draws upon recent work in sociology, psychology, and cognitive studies of religion, while using examples from the history of Judaism and contemporary Jewish culture.

0101	Maxine Grossman	Seats (Total: 30)
	MW 2:00pm - 3:15pm	SQH 1121

RELS499 **Independent Study in Religious Studies**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An advanced independent research project for qualified students, supervised by a faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

RUSS Russian Fall 2017

RUSS101 **Intensive Elementary Russian I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian. Credit only granted for: RUSS101 or (RUSS111 and RUSS112).

This intensive first-year course is intended to develop the four skills: reading, writing, listening and speaking with an emphasis on communicative competence.

This course has been put on a timed release system. Seats will be opended gradually by the registrar's office, to a total of 15 seats per section. If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

0101	Robert Fradkin, Cynthia Martin	Seats (Total: 18)
	MWF 10:00am - 10:50am	JMZ 2125
	TuTh 9:30am - 10:45am	JMZ 2125
0201	Robert Fradkin, Cynthia Martin	Seats (Total: 18)
	MWF 11:00am - 11:50am	JMZ 2125
	TuTh 11:00am - 12:15pm	JMZ 2125

RUSS201 **Intermediate Russian I**

Credits: 5 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: RUSS102 or RUSS114; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian.

Continued activation and expansion of skills and knowledge acquired in an elementary Russian course with the goal of communicative competence.

If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

0101	Zhanna Gerus-Vernola	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 2122
	TuTh 10:00am - 10:50am	JMZ 2122

RUSS222 **Masterworks of Russian Literature II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Introduction to the classics of Russian literature in translation, beginning with the end of the nineteenth century and concluding with contemporary works. Taught in English.

0101	Elizabeth Papazian	Seats (Total: 30)
	MW 2:00pm - 3:15pm	JMZ 1224

RUSS298 **Special Topics in Russian Language and Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

RUSS301 **Advanced Russian I**

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of Russian.

Advanced training in written Russian communicative structures.

0101	Maria Lekic	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 1226

RUSS303 **Russian Conversation: Functional Skills**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department.

Intended for students who do not anticipate having the opportunity to study in Russia. Skills for daily life (both function and etiquette) and argumentation (rhetoric).

0101	Anastasiia Selemeneva	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	JMZ 3203

RUSS361 **Dostoevsky's Life and Works**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Credit only granted for: RUSS361 or RUSS298P. Formerly: RUSS298P.

A study of Dostoevsky's major works with reference to related developments in Russian and European culture, literary criticism, and intellectual history. Interdisciplinary investigation of Dostoevsky's contemporary relevance and tremendous international popularity.

0101	Anastasiia Selemeneva	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0125

RUSS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

RUSS403 **Russian Conversation: Advanced Skills**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS303; or students who have taken courses with comparable content may contact the department.

Advanced spoken production of high-level, abstract language.

0101	Maria Lekic	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 3118

RUSS499 **Independent Study in Russian**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

RUSS798 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

RUSS799 **Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application — Fall 2017

SLAA610 **Research and Theories in Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Introduction to current theories and research findings Second Language Acquisition (SLA).

0101	Michael Long	Seats (Total: 10)
	Tu 1:00pm - 3:30pm	JMZ 3120

SLAA611 **Fundamentals of Foreign Language Acquisition and Instruction**

Credits: 3 Grading Method: Regular, Audit

Introduction to theoretical and practical issues relevant to foreign language learning, language acquisition, and curriculum construction.

0101	Robert De Keyser	Seats (Total: 10)
	W 1:00pm - 3:30pm	JMZ 1123

SLAA649R **Special Topics in Second Language Acquisition; Research Critique**

Credits: 3 Grading Method: Regular, Audit

Current topics in research in second language acquisition.

0101	Nan Jiang	Seats (Total: 10)
	Th 5:00pm - 7:30pm	JMZ 2122

SLAA650 **Second Language Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An overview of the field of linguistics with a particular attention to its application in SLA studies, introduces students to the basic concepts and skills related to the scientific study of language, and provides them with opportunities to apply these concepts and skills in the analysis of language. It covers topics such as phonetics, phonology, morphology, syntax, semantics, language acquisition, and language use.

0101	Nan Jiang	Seats (Total: 10)
	Th 2:00pm - 4:30pm	JMZ 3122

SLAA719 **Second Language Acquisition and Application Internship**

Credits: 3 Grading Method: Regular, Audit

Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.

Contact department for information to register for this course.

SLAA741 **Cognitive Processes in Second Language Learning**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SLAA610; or students who have taken courses with comparable content may contact the department.

Examines the roles played by varied types of learning processes and memory, general processing issues, and the cognitive bases of individual differences in learning and processing a second language.

0101	Kira Gor	Seats (Total: 10)
	W 4:00pm - 6:30pm	JMZ 2207

SLAA744 **Age Effects in Second Language Learning**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SLAA610. Restriction: Permission of instructor. Credit only granted for: SLAA649M or SLAA744. Formerly: SLAA649M.

Consideration of the empirical evidence for age effects in second language learning and its potential confounds. Critical evaluation of the differing interpretations of these effects and their implications for educational practice, SLA theory, development psychology, and research methodology.

0101	Robert De Keyser	Seats (Total: 10)
	Tu 4:00pm - 6:30pm	JMZ 2123

SLAA750 **Instructed Second Language Acquisition**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SLAA610.

Survey of studies on effectiveness of SLA instruction within various domains of language, with focus on research design.

0101	Michael Long	Seats (Total: 10)
	M 4:00pm - 6:30pm	JMZ 3122

SLAA760 **Fundamentals of Second Language Assessment**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SLAA610.

An overview of current assessment models in foreign and second language learning.

0101	Steven Ross	Seats (Total: 10)
	F 2:00pm - 4:30pm	JMZ 1122

SLAA779 **Directed Research in Second Language Acquisition and Application**

Credits: 1-3 Grading Method: Regular, Audit

Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.

Contact department for information to register for this course.

SLAA798 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

SLAA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA888 **Doctoral Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course.

Contact department for information to register for this course.

SLAA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLLC School of Languages, Literatures and Cultures — Fall 2017

SLLC108T **Beg Less Commonly Taught Language I; Turkish I**

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level. Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

First year Turkish is a Big Ten Academic Alliance CourseShare online course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will need to be entered into the Michigan State University course management system Desire to Learn (D2L). For more information about this course, including textbook information and instructions on enrolling in D2L, please see https://goo.gl/Z36h8T. Heritage speakers and those with prior knowledge of Turkish need to contact the Course Coordinator at MSU before enrolling in the course to determine appropriate placement, Ms. Steider: steider@msu.edu, 517-355-5105. Please note: The course will begin on September 5, 2017. The last day to enroll in this class is September 5, 2017 and no additional seats will be added. Although this is an online course, it is NOT self-paced. There are weekly assignments and two required virtual meetings per week on Tuesday and Thursday from 11:30 am to 12:20 pm.

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC108V **Beg Less Commonly Taught Language I; Vietnamese I**

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level. Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

First year Vietnamese is a Big Ten Academic Alliance CourseShare online course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will also need to be entered into the Michigan State University course management system Desire to Learn (D2L). For more information about this course, including textbook information and instructions on enrolling in D2L, please see https://goo.gl/yoEbEm. Heritage speakers and those with prior knowledge of Vietnamese need to contact the Course Coordinator at MSU before enrolling in the course to determine appropriate placement, Ms. Steider: steider@msu.edu, 517-355-5105. Please note: The course will begin on September 5, 2017 and no additional seats will be added. Although this is an online course, it is NOT self-paced. There are weekly assignments and one required virtual meeting each week on Thursday from 6:00-6:45 pm, 7-7:45 pm OR 8-8:45 pm.

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC169B **Special Topics in Study Abroad I; Elementary Basque I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169C **Special Topics in Study Abroad I; Elementary Basque II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169D **Special Topics in Study Abroad I; Great Czech Writers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169L **Special Topics in Study Abroad I; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC208V **Intermediate Less Commonly Taught Language I; Vietnamese I**

Credits: 4 Grading Method: Regular

Intermediate-level work on speaking, reading, and writing a less commonly taught language. Continued development of oral proficiency skills.

Second year Vietnamese is a Big Ten Academic Alliance CourseShare online course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will need to be entered into the Michigan State University course management system Desire to Learn (D2L). For more information about this course, including textbook information and instructions on enrolling in D2L, please see https://goo.gl/yoEbEm. The course pre-requisite is SLLC109V. Heritage speakers and those with prior knowledge of Vietnamese need to contact the Course Coordinator at MSU before enrolling in the course to determine appropriate placement, Ms. Steider: steider@msu.edu, 517-355-5105. Please note: The course will begin on September 5, 2017. The last day to enroll in this class is September 5, 2017 and no additional seats will be added. Although this is an online course, it is NOT self-paced. There are weekly assignments and one required virtual meeting each week on Tuesday from 6:00-6:45 pm, 7-7:45 pm OR 8-8:45 pm.

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC269B **Special Topics in Study Abroad II; Scandinavian Moods in Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269X **Special Topics in Study Abroad II; Intermediate Basque I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269Y **Special Topics in Study Abroad II; Intermediate Basque II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC286 **Living the Good Life: Chinese Philosophy in the Modern World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Additional information: Taught in English.

Confucius, Mencius, Zhuangzi and other Chinese thinkers who lived more than 2,000 years ago would argue that the contemporary Western emphasis on self-discovery (Find yourself) and self-acceptance has led you astray. See what they have to say and discuss what relevance it has for the modern world as we study how early Chinese thinkers wrestled with questions of existence, morality, and governance. No previous knowledge of Chinese philosophy and history will be assumed and no prerequisites are required. We will discuss ideas that are both historical and relevant to students' lives. What is "the Way"? How do we cultivate spontaneity? Is there a stable self? How can we be more alive? These are questions important for ancient kings but also for UMD students choosing a major, or wondering how ARHU can benefit them.

0101	Andrew Schonebaum	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	MCB 1207

SLLC299P **Special Topics in World Cultures; Behavior of the Rich and Powerful, Past and Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Topic to be announced when course is offered.

Through the study of XV and XVI century courtesy literature, in this course we will explore the various forms of behavior of the rich and powerful of the Italian Renaissance, an era that is much closer to our contemporary world than we might initially think, especially in regard to the way political and influential figures act in social situations and the image of themselves they present to others. What can we learn from observing and comparing the behavior of the rich and powerful of the past and present? In the public arena of these two worlds, does appearance matter more than truth?

FC01	Joseph Falvo	Seats (Total: 20)
	MW 6:00pm - 7:15pm	JMZ 2117
	Restricted to students in Freshmen Connection.	

SLLC299R **Special Topics in World Cultures; Elementary Italian I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z **Special Topics in World Cultures; Spanish Civilization and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC309 **Language Partner Program**

(Perm req)

Credits: 1 Grading Method: Regular

For intermediate- to advanced-level language study. Conversations entirely in target language with native speaker.

Students must be available to meet on Monday, September 25, 2017 and Monday, December 4, 2017.

0101	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Arabic. Meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0102	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Chinese. Meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0103	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *French. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0104	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *German. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0105	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Italian. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA

0106	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Japanese. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0108	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Persian. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0109	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Russian. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA
0110	Mehl Penrose M 4:00pm - 5:50pm Contact instructor or department for details. *Spanish. meets September 25, 2017 - December 4, 2017*	Seats (Total: 10) Location: TBA

SLLC369A **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369C **Special Topics in Study Abroad III; Czech Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369D **Special Topics in Study Abroad III; Art and Dictatorship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369X **Special Topics in Study Abroad III; Advanced Basque I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369Y **Special Topics in Study Abroad III; Advanced Basque II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC386 **Experiential Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor and the student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SLLC601 **Teaching Foreign Languages in Higher Education**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department. Credit only granted for: SLLC601 or SPAN605. Formerly: SPAN605.

Methods and materials for teaching foreign languages in higher education.

0101	Regina Ianozi	Seats (Total: 10)
	M 3:00pm - 4:15pm	JMZ 1123

SLLC789 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

SOCY Sociology Fall 2017

SOCY100 **Introduction to Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

0101	Alex Parkhouse TuTh 9:30am - 10:45am	Seats (Total: 60) ASY 1213	
0201	Robert Pernick MWF 10:00am - 10:50am	Seats (Total: 60) ASY 1213	
0301	Anya Galli Robertson MWF 9:00am - 9:50am	Seats (Total: 60) ESJ 0215	
0401	Robert Pernick MWF 11:00am - 11:50am	Seats (Total: 60) ASY 1213	
0501	Mansoor Moaddel TuTh 8:30am - 9:20am F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 TWS 1107	 Discussion
0502	Mansoor Moaddel TuTh 8:30am - 9:20am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 KNI 1105	 Discussion
0503	Mansoor Moaddel TuTh 8:30am - 9:20am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ARC 1105	 Discussion
0504	Mansoor Moaddel TuTh 8:30am - 9:20am F 12:00pm - 12:50pm	Seats (Total: 25) ASY 2203 ASY 3203	 Discussion
FC01	Carrie Clarady MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) ASY 2309	
FC02	Daniel Swann TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) ASY 1213	

SOCY100H Introduction to Sociology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

Open to Honor students only.

0101	Brian Connor MWF 10:00am - 10:50am	Seats (Total: 25) ASY 3203

SOCY105 Introduction to Contemporary Social Problems

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

0101	Naliyah Kaya TuTh 12:30pm - 1:45pm	Seats (Total: 60) ASY 1213
0201	Wendy Laybourn TuTh 3:30pm - 4:45pm	Seats (Total: 60) ASY 1213
0301	Jenelle Clark MWF 1:00pm - 1:50pm	Seats (Total: 60) ASY 1213
0401	Jenelle Clark MWF 12:00pm - 12:50pm	Seats (Total: 60) ASY 2309
FC01	Jenelle Clark MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) ASY 1213

SOCY110 The Logic of Social Inquiry

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Additional information: To be taken prior to, or in the first 30 credits after declaring sociology as a major.

Introduction to the logic of social science research; the integration of theory and methods in the development of sociological knowledge; basic sociological concepts; and departmental research streams. Required of all sociology majors.

0101	Brian Connor MWF 9:00am - 9:50am	Seats (Total: 80) ASY 1213	

SOCY200 **Human Societies**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human socieities that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

0101	John Pease MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 22) ASY 2203 ASY 3203	Discussion
0102	John Pease MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 22) ASY 2203 ASY 3207	Discussion
0103	John Pease MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 22) ASY 2203 JMZ 1122	Discussion
0104	John Pease MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 22) ASY 2203 EDU 1121	Discussion
0105	John Pease MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 22) ASY 2203 ASY 3211	Discussion
0106	John Pease MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 22) ASY 2203 EDU 3315	Discussion
0107	John Pease MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 15) ASY 2203 ARC 1125	Discussion

0108	John Pease MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 15) ASY 2203 ARC 1125	Discussion

SOCY201 **Introductory Statistics for Sociology**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: SOCY100; and (MATH107 or MATH111). Or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, INST314, JOUR405, PSYC200 or SOCY201. (These courses do not necessarily meet the same major requirements-check with your advisor to see which of these courses will count for your major).

Elementary descriptive and inferential statistics. Construction and percentaging of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.

0102	Alan Neustadtl TuTh 11:00am - 12:15pm W 10:00am - 11:50am	Seats (Total: 20) ASY 2309 LEF 0231	Lab
0103	Alan Neustadtl TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 20) ASY 2309 LEF 0231	Lab
0104	Alan Neustadtl TuTh 11:00am - 12:15pm W 2:00pm - 3:50pm	Seats (Total: 20) ASY 2309 LEF 0231	Lab

SOCY202 **Introduction to Research Methods in Sociology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: SOCY201.

The underlying logic, major strategies, specific techniques and skills of sociological research. Research design, measurement, data collection, sampling, field research experiments, surveys, index and scale construction, data analysis, interpretation and report writing.

0201	Wei-hsin Yu TuTh 11:00am - 12:15pm W 8:00am - 9:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0202	Wei-hsin Yu TuTh 11:00am - 12:15pm W 10:00am - 11:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0203	Wei-hsin Yu TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0204	Wei-hsin Yu TuTh 11:00am - 12:15pm W 2:00pm - 3:50pm	Seats (Total: 20) ASY 1213 LEF 0221	 Lab

SOCY203 **Sociological Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

0201	Meyer Kestnbaum TuTh 2:00pm - 3:15pm	Seats (Total: 78) TWS 1310

SOCY224 **Why are We Still Talking About Race?**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Exploration of the major debates and assumptions that construct individual perceptions of what race is and how race matters. Sociological and sub-cultural theories will give students a historical and present day frame with which to view race and ethnic relations in the twenty first century.

0101	Rashawn Ray TuTh 2:00pm - 3:15pm	Seats (Total: 120) ASY 2203

SOCY225 **Women's Jobs, Men's Jobs: How and Why Do They Differ?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

An exploration of critical issues pertaining gender differences in the workplace. Overview of theories explaining why some people do better than the others in the world of work, and discussions of more specific questions relating to women's and men's job opportunities and experiences.

0101	Wei-hsin Yu TuTh 2:00pm - 2:50pm F 8:00am - 8:50am	Seats (Total: 22) ASY 1213 EDU 1107	Discussion
0102	Wei-hsin Yu TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 22) ASY 1213 EDU 1107	Discussion
0103	Wei-hsin Yu TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 22) ASY 1213 ARC 1101	Discussion
0104	Wei-hsin Yu TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 22) ASY 1213 ASY 3221	Discussion

SOCY227 **Introduction to the Study of Deviance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: SOCY227 or SOCY327. Formerly: SOCY327.

An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs.

0101	Alex Parkhouse TuTh 2:00pm - 3:15pm	Seats (Total: 50) ASY 2309
0201	David Strohecker MWF 12:00pm - 12:50pm	Seats (Total: 50) ASY 1213

SOCY230 **Sociological Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

0101	Rashawn Ray	Seats (Total: 192)
	TuTh 12:30pm - 1:45pm	ASY 2203

SOCY242 **Sociology of Homelessness**

Credits: 3 Grading Method: Regular

Examines the causes of and solutions for homelessness in society. How social scientists analyze social issues using ethnographic observation, surveys, official statistics, and other research methods. Discusses how policies have responded to the problem of homelessness, and how to evaluate their effectiveness.

0101	Reeve Vanneman	Seats (Total: 80)
	TuTh 9:30am - 10:45am	ASY 2309

SOCY258L **Special Topics in Study Abroad II; Living Rome: Urban Spaces, Culture and Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY335 **Sociology of Health and Illness**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An exploration of the social model to studying health and illness: how meanings and experiences of health and illness are socially produced. How experiences are shaped by the interaction of external social environments (culture, community) and the internal environment (human body), and by socio-demographic variables (race, class, gender, etc.). Disparities in health and healthcare delivery, medicalization of society, determinants of health, social construction of illness, and the social organization of health care.

0101	Alex Parkhouse	Seats (Total: 80)
	TuTh 12:30pm - 1:45pm	ASY 2309

SOCY380 **Honors Independent Reading in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Sociology department. Formerly: SOCY378.

This course permits sociology honor students to undertake a program or reading on a particular problem in sociology or a subfield therein. The reading will be done under the supervision of a member of the sociology faculty. Required of sociology honor students.

0101	Linda Moghadam	Seats (Total: 5)
	Contact instructor or department for details.	

SOCY381 **Honors Independent Research in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY380. Formerly: SOCY388.

This course permits sociology students to define a particular problem in sociology or a subfield therein and to develop a research plan for use as a thesis topic. The work will be done under the supervision of a member of the sociology faculty.

Contact department for information to register for this course.

SOCY383 **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY381. Formerly: SOCY389.

Student research under the direction of a member of the sociology faculty, culminating in the presentation and defense of a thesis reporting the research.

Contact department for information to register for this course.

SOCY386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

To register, students must have departmental permission form signed by instructor and by Coordinator of Sociology Undergraduate Program.

Contact department for information to register for this course.

SOCY398T **Special Topics in Sociology; Identity and Culture in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Contact department for information to register for this course.

SOCY398W **Special Topics in Sociology; Experiential Learning: Maryland, Public Policy, and Beyond**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

0101	Casey Burgat	Seats (Total: 40)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

SOCY399 **Independent Study in Sociology**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

No more than 6 hours of 399 is allowed for credit.

Contact department for information to register for this course.

SOCY405 **Scarcity and Modern Society**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses. Credit only granted for: SOCY305 or SOCY405. Formerly: SOCY305.

Resource depletion and the deterioration of the environment. Relationship to lifestyles, individual consumer choices, cultural values, and institutional failures. Projection of the future course of American society on the basis of the analysis of scarcity, theories of social change, current trends, social movements, government actions, and the futurist literature.

0101	Kurt Finsterbusch	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	ARC 1105

SOCY410 **Social Demography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Types of demographic analysis; demographic data; population characteristics; migration; mortality; fertility; population theories; world population growth; population policy.

0101	Feinian Chen	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	ASY 3207

SOCY413 **Sociology of Aging**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 2 courses in SOCY. Credit only granted for: SOCY498D or SOCY413. Formerly: SOCY498D.

The aging of the population is one of the major demographic changes affecting social institutions during the next century. Research demography, sociology, economics, epidemiology, psychology and public health are integrated to develop a broader understanding of the causes and consequences of population aging. A central focus is the diversity of experiences by age, gender, socioeconomic status and health.

0101	Joan Kahn	Seats (Total: 25)
	MW 2:00pm - 3:15pm	ASY 3207

SOCY424 **Sociology of Race Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Also offered as: AAST424. Credit only granted for: AAST424 or SOCY424.

Analysis of race-related issues, with a primary focus on American society. The historical emergence, development, and institutionalization of racism; the impact of racism on its victims; and racially based conflict.

0101	Kris Marsh	Seats (Total: 29)
	TuTh 9:30am - 10:45am	KNI 1105

SOCY428 **Research in Inequality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This is the special topics research course for Stratification and Inequality.

0101	Reeve Vanneman TuTh 3:30pm - 4:45pm	Seats (Total: 20) ARC 1103

SOCY431 **Principles of Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Structural and processual characteristics of organizations that make them effective for different purposes and in different environments. Effects of different institutional environments, small group processes, organizational networks, and leadership. Types of organizations studied include formal bureaucracies, professional organizations, and voluntary associations.

0101	Kurt Finsterbusch MWF 10:00am - 10:50am	Seats (Total: 29) ASY 2309

SOCY432 **Social Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Movements that seek change in the social and political structure of society. Origins, tactics, organization, recruitment, and success. Case studies come from such movements as labor, civil rights, student, feminist, environmental, neighborhood, and gay rights.

0101	Brian Connor MWF 1:00pm - 1:50pm	Seats (Total: 29) ASY 3207

SOCY441 **Social Stratification and Inequality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Restriction: Junior standing or higher.

The sociological study of social class, status, and power. Topics include theories of stratification, correlates of social position, functions and dysfunctions of social inequality, status inconsistency, and social mobility.

0101	Yan Yu TuTh 9:30am - 10:45am	Seats (Total: 29) ASY 3203

SOCY445 **Sex and Love in Modern Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY201, SOCY202, SOCY203, and SOCY230. Restriction: Must be in Sociology program; or permission of BSOS-Sociology department. Credit only granted for: SOCY498X or SOCY445. Formerly: SOCY498X.

Sociological theories of sex and gender are used to explore empirical research on women's and men's sexual behavior and attitudes; variation in gendered sexuality by key social characteristics and how gendered sexuality is constructed and controlled; changes in sexuality over time and across relationship types, focusing on changes in sexual desire and behaviors and on the changing meaning of sex and marriage in U.S. society and other countries. Contemporary debates about sexuality will also be examined.

0101	Liana Sayer	Seats (Total: 29)
	MW 3:30pm - 4:45pm	ASY 3207

SOCY457 **Sociology of Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Social, political, and cultural sources of legal norms and concepts; and how the law shapes society and society shapes the law using sociological theoretical frameworks. The role of social change, social reproduction and inequality (including race, class, gender, and sexuality) to achieve certain objectives such as compliance, deterrence and social control.

0101	Dawn Dow	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	TLF 1103

SOCY490 **Experimental Research Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of instructor. Additional information: This is the first course in the experimental research practicum 2-course sequence.

Hands-on experience in designing, conducting, and analyzing experimental research. Introduces students to causal inference in social scientific research, focusing on experimental designs. Students will get hands-on research experience running experimental studies in the group processes lab. Students will also work with the professor and graduate students in the department to develop a research idea that can be executed in the spring semester.

0101	Long Doan	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	ASY 1101

SOCY498M **Selected Topics in Sociology; Qualitative Research Methods in Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Dawn Dow	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ASY 1101

SOCY498T **Selected Topics in Sociology; Black Middle Class**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Kris Marsh	Seats (Total: 29)
	TuTh 8:00am - 9:15am	ASY 3207

SOCY602 **Statistics For Sociological Research II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY601; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY602 or SURV602.

This course introduces regression analysis using matrix algebra. Topics include bivariate regression, multivariate regression, tests of significance, regression diagnostics, indicator variables, interaction terms, extra sum of squares, and the general linear model. Other topics may be addressed such as logistic regression and path analysis. Statistical programming software may be used.

0101	Alan Neustadtl	Seats (Total: 20)
	Th 3:30pm - 6:00pm	ASY 1101

SOCY611 **Introduction to Demographic Methods**

Credits: 3 Grading Method: Regular, Audit

Survey of standard demographic methods for the description and analysis of population size, structure and composition, including techniques for the analysis of fertility, mortality and migration.

0101	Joan Kahn	Seats (Total: 20)
	W 3:30pm - 6:00pm	ASY 3215

SOCY616 **Sociology Pro-Seminar**

Credits: 1 Grading Method: Sat-Fail

Restriction: Must be in Sociology (Doctoral) program. Credit only granted for: SOCCY699P or SOCY616. Formerly: SOCY699P.

The proseminar is the guide to Sociology as a profession, and how sociology is practiced here at the University of Maryland. The goal of the course is to help students gain insider knowledge about how to develop sociological knowledge and capabilities, and what it means to practice sociology as a graduate student and beyond. The course will discuss both practical aspects of professional life in general and specific topics of interest.

0101	Liana Sayer	Seats (Total: 20)
	M 6:30pm - 7:20pm	ASY 1101

SOCY620 **Development of European and American Sociological Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY203 or SOCY403; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Review of the history of sociological thought with major attention to the key figures (from Marx to C. Wright Mills).

For SOCY majors only.

0101	Meyer Kestnbaum	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 2115

SOCY664 **Armed Forces and Society**

Credits: 3 Grading Method: Regular, Audit

Analysis of the relationship between military organization and modern industrial society. Growth and decline of the mass army, the transition from conscription to all-volunteer forces, the social legitimacy of military organization, the military as a form of industrial organization, and problems of civil-military relations in the modern world.

0101	Meredith Kleykamp	Seats (Total: 20)
	Tu 6:30pm - 9:00pm	ASY 1101

SOCY699 **Special Social Problems**

Credits: 1-16 Grading Method: Regular

Contact department for information to register for this course.

SOCY699D **Special Social Problems; Logic of Social Inquiry**

Credits: 3 Grading Method: Regular, Audit

Restricted to Sociology Graduate Students

0101	Long Doan	Seats (Total: 20)
	M 3:30pm - 6:00pm	ASY 1101

SOCY699E **Special Social Problems; Critical Race Initiative**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Restriction: Permission of Instructor required. Please contact instructor or department for details.

0101	Rashawn Ray	Seats (Total: 10)
	F 11:00am - 11:50am	Location: TBA

SOCY699F **Special Social Problems; Families and Modern Social Theory**

Credits: 3 Grading Method: Regular, Audit

Restriction: Sociology Graduate students or permission of instructor.

0101	Philip Cohen	Seats (Total: 20)
	W 6:30pm - 9:00pm	ASY 1101

SOCY699G **Special Social Problems; Group Processes**

Credits: 3 Grading Method: Regular, Audit

0101	Jeffrey Lucas	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 1101

SOCY699M **Special Social Problems; Pro-Seminar for BA/MA Students**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Restricted to students in the 5-Year BA/MA Sociology program.

0101	Alan Neustadtl	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY699R **Special Social Problems; Sociological Research**

Credits: 1 Grading Method: Regular, Audit

0101	Liana Sayer	Seats (Total: 20)
	F 11:00am - 12:30pm	ASY 1101

SOCY699V **Special Social Problems; Contexting Sociology**

Credits: 1 Grading Method: Regular, Audit

0101	Philip Cohen	Seats (Total: 10)
	Tu 11:00am - 11:50am	ASY 4111

SOCY709D **Advanced Special Topics in Data Analysis; Categorical Data Analysis**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of an area of interest in data analysis, including such topics as log linear analysis; discriminant function analysis; canonical correlation; factor analysis; analysis of qualitative data; content analysis; mathematical models.

0101	Feinian Chen	Seats (Total: 20)
	Th 3:30pm - 6:00pm	ASY 2115

SOCY799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY819 **Research Seminar in Social Psychology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in social psychology.

0101	Jeffrey Lucas	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY829 **Research Seminar in Sociological Theory**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in sociological theory.

0101	Meyer Kestnbaum	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY849 **Research Seminar in Demography**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in demography.

0101	Sonalde Desai	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY858 **Research Seminar in Gender, Work and Family**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take the specialty examination in Gender, Work and Family.

0101	Liana Sayer	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY869 **Research Seminar in Military Sociology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in military sociology.

0101	Meredith Kleykamp	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY889 **Research Seminar in Social Stratification**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in stratification.

0101	Philip Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

SPAN Spanish Fall 2017

SPAN103 **Intensive Elementary Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Carla Onate MWF 10:00am - 10:50am Tu 10:00am - 10:50am	Seats (Total: 25) JMZ 1117 JMZ 2207
0201	Carla Onate MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 25) JMZ 3120 JMZ 0120
0301	Rosario Montero Navarro MWF 12:00pm - 12:50pm Tu 12:00pm - 12:50pm	Seats (Total: 25) JMZ 1124 JMZ 1124
0401	Juan Granja MWF 1:00pm - 1:50pm Tu 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0120 HBK 0123
0501	Jackson Monzon MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) JMZ 0120 JMZ 0120

SPAN169O **Special Topics in Study Abroad I; Beginner Spanish I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169P **Special Topics in Study Abroad I; Beginner Spanish II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Douglas Glynn MWF 9:00am - 9:50am Th 9:00am - 9:50am	Seats (Total: 25) JMZ 2207 JMZ 2122
0201	Jose Magro MWThF 10:00am - 10:50am	Seats (Total: 25) JMZ 1124
0301	Jose Magro MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) JMZ 1124 JMZ 1117
0401	M Lewis MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) JMZ 1120 JMZ 1120
0501	Jose Magro MWF 12:00pm - 12:50pm Th 12:00pm - 12:50pm	Seats (Total: 25) JMZ 3203 JMZ 1120
0601	Evelyn Canabal-Torres MWF 1:00pm - 1:50pm Th 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1224 JMZ 0122
0701	M Lewis MWThF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1124

0801	Evelyn Canabal-Torres MWThF 2:00pm - 2:50pm	Seats (Total: 25) JMZ 1124

SPAN204 **Spanish Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Douglas Glynn MWF 11:00am - 11:50am	Seats (Total: 25) HBK 0123
0201	Melissa Gonzalez-Contreras MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 2122
0301	Nidia Reyes TuTh 11:00am - 12:15pm	Seats (Total: 25) JMZ 0205
0401	Cecilia Battauz TuTh 12:30pm - 1:45pm	Seats (Total: 25) KNI 1105

SPAN206 **Review of Oral and Written Spanish for Native Speakers Educated in the United States**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Native or near native knowledge of and no formal education in Spanish.

Review of oral and written Spanish for students who have native or near native knowledge of, but no formal education in Spanish. Taught in Spanish.

Offered fall only.

0101	Evelyn Canabal-Torres MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0118

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Minimum grade of B+ in SPAN203; or must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

0101	Chila Hidalgo MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 3205
0201	Chila Hidalgo MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 0103
0301	Chila Hidalgo MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0118
0401	Sofia Maurette TuTh 9:30am - 10:45am	Seats (Total: 25) HBK 1112
0501	Nelida Devesa-Gomez TuTh 12:30pm - 1:45pm	Seats (Total: 25) KEY 0102

SPAN234 **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Britta Anderson MW 11:00am - 12:15pm	Seats (Total: 30) TWS 1106
0201	Britta Anderson TuTh 12:30pm - 1:45pm	Seats (Total: 35) CCC 1111

SPAN234H **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

Open to Honor students only.

0101	Britta Anderson	Seats (Total: 5)
	MW 11:00am - 12:15pm	TWS 1106

SPAN269A **Special Topics in Study Abroad II; B1 Intermediate Level Spanish I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269B **Special Topics in Study Abroad II; B1 Intermediate Level Spanish II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269I **Special Topics in Study Abroad II; Intermediate Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269L **Special Topics in Study Abroad II; Spanish Language B1**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

0101	Ana Acedo Garcia MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 0103
0201	Ana Acedo Garcia MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 1117
0301	Melissa Gonzalez-Contreras MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 2117
0401	Ana Acedo Garcia MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 1117
0501	Chila Hidalgo MWF 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0125
0601	Jose Contreras MWF 10:00am - 10:50am	Seats (Total: 20) HBK 0123
BL01	Luis Charry TuTh 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 20) JMZ 2120 ONLINE
BL02	Carla Onate TuTh 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 20) JMZ 2125 ONLINE

SPAN302 **Advanced Grammar and Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

Contact department for information to register for this course.

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

0101	Hernan Sanchez MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2207
0201	Melissa Gonzalez-Contreras MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 2207
0301	Melissa Gonzalez-Contreras MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 2207
0401	M Lewis MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 2122
0501	Ryan Long MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2123
0601	Luis Charry TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 1226
0701	Douglas Glynn Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 20) JMZ 1117 JMZ 2206

SPAN306 **Spanish II for Native Speakers**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN206.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical and stylistic devices will be highlighted. Designed for Spanish speakers educated in English. Taught in Spanish.

0101	Evelyn Canabal-Torres	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 0208

SPAN310 **Spanish Phonetics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Descriptive study of the Spanish sound system. Practice in phonetic perception, transcription, and articulation. Particular attention to sentence phonetics; juncture, rhythm, stress, pitch.

0101	Ana Acedo Garcia	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2206

SPAN311 **Advanced Conversation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303. Restriction: Must not be a native/fluent speaker of Spanish.

Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.

0101	Elisa Gironzetti	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2117
0201	Mariluz Bort Caballero	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	KEY 0125

SPAN315 **Commercial Spanish I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments.

Offered fall only.

0101	Fabian Faccio MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 3203
0201	Kayla Watson MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 2206
0301	Kayla Watson MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2206

SPAN316 **Practicum in Translation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303.

Translation of texts into Spanish and/or English. Taught in Spanish.

Offered fall only.

0101	Ginette Eldredge MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 1215
0201	Ginette Eldredge MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 3203
0301	Sarah Dowman MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 2207

SPAN317 **Translation II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN316.

Translation of non-literary, non-technical texts into Spanish and/or English.

Contact department for information to register for this course.

SPAN318 **Translation of Technical Texts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specialized texts in law and international affairs into Spanish and/or English. Taught in Spanish.

0101	Jose Magro	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0122

SPAN331 **Spanish Culture, Civilization and Literature I: Medieval Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

The exploration of cultures of the Iberian Peninsula from its origins until the 15th century as well as the study of historical and political events that gave rise to the Spanish state. Taught in Spanish.

0101	Carmen Benito-Vessels	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	JMZ 3203

SPAN332 **Spanish Culture, Civilization and Literature II: Renaissance and Baroque**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 15th through late 17th centuries, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

0101	Jose Naharro-Calderon	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1215

SPAN359B **Spanish for the Professions; Spanish in the Community**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Exploration of cultural and linguistic skills for different professional contexts including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary. Taught in Spanish.

Prerequisite: SPAN 316. As the Latina/o population grows in the U.S. and the D.C. metro area, speaking Spanish is a plus, if not a must, in many professions. SPAN 359B will expose you to Latin@ demographics, cultures, communities, and work opportunities. This semester well work in College Park to develop educational materials, parent ESL classes, and tutoring sessions for students. As part of a 9-10 hour service-learning requirement (date/times TBD), students will have the opportunity to work in a local school, teaching English to parents and tutoring children. This class is ideal for students interested in careers in education, social services, translation / interpretation, communication, business, etc. Class format consists of lecture, discussion, blogging, digital storytelling, and collaborative group work in and outside of the classroom. Taught in Spanish and English as part of a Bilingual Series of classes.

0101	Ana Rodriguez	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 2117

SPAN359C **Spanish for the Professions; Spanish in the Life Sciences**

Credits: 3-9

Grading Method: Regular, Pass-Fail, Audit

Exploration of cultural and linguistic skills for different professional contexts including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary. Taught in Spanish.

0101	Jose Contreras	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2120

SPAN361 **Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.

0101	Ginette Eldredge MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 1117
0201	Eyda Merediz TuTh 9:30am - 10:45am	Seats (Total: 25) JMZ 1117

SPAN361H **Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.

0101	Ginette Eldredge MWF 12:00pm - 12:50pm	Seats (Total: 1) JMZ 1117

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN363 **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Prerequisite: SPAN303; and (SPAN311 or SPAN316).

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

0101	Juan Carlos Quintero-Herencia MWF 10:00am - 10:50am	Seats (Total: 16) JMZ 3118
0201	Saul Sosnowski TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 2206

SPAN369A **Special Topics in Study Abroad III; Advanced Oral Communication in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369B **Special Topics in Study Abroad III; Advanced Academic Writing in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369F **Special Topics in Study Abroad III; Spanish Oral Skills through Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369G **Special Topics in Study Abroad III; Spanish for the Health Professional**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369J **Special Topics in Study Abroad III; Spanish Grammar and Expression**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369M **Special Topics in Study Abroad III; Spanish Language B2**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Q **Special Topics in Study Abroad III; Spanish Phonetics and Phonology**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369R **Special Topics in Study Abroad III; Advanced Reading Skills in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369V **Special Topics in Study Abroad III; Advanced Present-Day Spanish Usage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369W **Special Topics in Study Abroad III; Spanish Stylistics: Advanced Spanish Writing and Stylistics**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Y **Special Topics in Study Abroad III; B2 Advanced Level Spanish 1**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Z **Special Topics in Study Abroad III; B2 Advanced Level Spanish 2**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SPAN399 **Independent Study in Spanish**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Prerequisite: permission of department.

Contact department for information to register for this course.

SPAN401 **Advanced Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408R **Great Themes of the Hispanic Literatures; Central American Diasporas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Also offered as USLT418C. Credit granted for SPAN408R or USLT418C. Focus is placed on Central American Diasporas in the context of modern Central American societies, histories, (geo)politics, social and revolutionary movements, and cultural and literary production. It offers students an opportunity to learn more about Central America and its diasporic communities within and beyond the isthmus. Located between oceans, continents, and worldviews, the Central American isthmus has been a site of dispersion and cross-pollination of flora, fauna, peoples, cultures, and stories within and outside of the region. Covering El Salvador, Guatemala, Nicaragua, Honduras, Costa Rica, Panama, Belize, and their translocations, we will study representative Central American texts and critical diasporic literature in relation to exile, (im)migration, war, genocide, violence, transnationalism, globalization, among other topics.

0101	Ana Rodriguez	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 3120

SPAN408Y **Great Themes of the Hispanic Literatures; Contemporary Spanish Short Story**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409F **Great Themes of the Hispanic Literatures; Literary Myths and Philosophy in the European Tradition**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409O **Great Themes of the Hispanic Literatures; Images of Spain in Contemporary Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409W **Great Themes of the Hispanic Literatures; Women Writers of Spain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409X **Great Themes of the Hispanic Literatures; The Spanish Mystery Novel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409Y **Great Themes of the Hispanic Literatures; Filmmaking in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN415 **Commercial Spanish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN370; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Sophomore standing or higher.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of international topics. Cross-cultural considerations relative to international business operations, including exporting and banking.

0101	Fabian Faccio	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0103

SPAN422 **Cross-Cultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Prerequisite: SPAN370 OR SPAN371 OR SPAN373 OR SPAN 374. Restriction: Junior standing or higher.

Focuses on the relationship of language and culture of those operating in world markets. Particular attention will be given to intercultural communication, linguistic systems, culture specific perceptions of, and negotiation with, the Spanish-speaking world. Taught in Spanish.

Contact department for information to register for this course.

SPAN425 **Introduction to Hispanic Linguistics I: Basic Concepts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN303; and SPAN311 or SPAN316 or SPAN325.

This course begins with an introduction to general concepts in linguistics, from language function and the brain to communication, culture, and thought, and their relation to other disciplines in the social sciences. The main purpose of this course is to provide an overview of Hispanic linguistics through multiple perspectives, while exploring the areas of Spanish morphology, syntax, and semantics. This course will also focus on the structural tendencies of Spanish through a variety of practical activities. Taught in Spanish.

Also offered as SPAN625. Credit granted for SPAN425 or SPAN625.

0101	Elisa Gironzetti	Seats (Total: 20)
	MW 4:00pm - 5:15pm	JMZ 0122

SPAN427 **Visions and Fictions from Spain**

Credits: 3 Grading Method: Regular

Prerequisite: SPAN331, SPAN332, or SPAN333; or students who have taken courses with comparable content may contact the department; or permission of ARHU-Spanish & Portuguese Languages & Literatures department. Also offered as: FILM427. Credit only granted for: FILM427 or SPAN427.

Overview of Spanish Cinema from the end of the 19th century through present day Spain. Exploration of the production of literary and cinematic texts in their sociohistorical, political, religious and cultural contexts. Taught in Spanish.

0101	Jose Naharro-Calderon	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 1122

SPAN449J **Special Topics in Spanish Civilization; Mosaic: Jews, Muslims and the Spanish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449Z **Special Topics in Spanish Civilization; Barcelona/ Madrid: Literature & Film in the Contemporary City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN462 **Twentieth Century Drama**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Significant plays of the twentieth century.

Contact department for information to register for this course.

SPAN463 **Latin American Drama**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Emphasis will be placed on Latin American plays of the twentieth century.

Contact department for information to register for this course.

SPAN464 **Contemporary Spanish Poetry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN469C **Study Abroad Special Topics IV; Composition**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN469D **Study Abroad Special Topics IV; Chilean History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN478B **Special Topics in United States Latino Cultures; Spanish in the United States**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Explores special topics in US Latino Cultures, ranging from Chicano, Nuyorican, Cuban-American, Dominican, Central-American and other border cultural identities.

0101	Manel Lacorte Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 25) JMZ 2207 JMZ 2207

SPAN479 **Honors Thesis**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Researching and writing an honors thesis under the direction of a professor.

Contact department for information to register for this course.

SPAN495 **Honors Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must be in Spanish and Portuguese Honors; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Supervised reading.

Contact department for information to register for this course.

SPAN625 **Introduction to Hispanic Linguistics I:Basic Concepts**

Credits: 3 Grading Method: Regular, Audit

Introduction to basic terms and definition in Hispanic Linguistics. Fundamental aspects of phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics.

Also offered as SPAN425. Credit granted for SPAN425 or SPAN625.

0101	Elisa Gironzetti MW 4:00pm - 5:15pm	Seats (Total: 5) JMZ 0122

SPAN699 **Independent Study in Spanish**

Credits: 1-3 Grading Method: Regular, Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN798T **Open Seminar; Caribbean Archipelago: Politics, Infrapolitics**

Credits: 3 Grading Method: Regular, Audit

0101	Juan Carlos Quintero-Herencia W 5:00pm - 7:30pm	Seats (Total: 10) JMZ 2125

SPAN798V **Open Seminar; History of Spanish**

Credits: 3 Grading Method: Regular, Audit

0101	Carmen Benito-Vessels Tu 5:00pm - 7:30pm	Seats (Total: 10) JMZ 3118

SPAN798W **Open Seminar; Spanish Drama of the Golden Age (From Cervantes to Calderon)**

Credits: 3 Grading Method: Regular, Audit

0101	Hernan Sanchez M 5:00pm - 7:30pm	Seats (Total: 10) JMZ 2123

SPAN798Z **Open Seminar; Indispensible Writers I: Cities and Travellers**

Credits: 3 Grading Method: Regular, Audit

0101	Saul Sosnowski Th 5:00pm - 7:30pm	Seats (Total: 10) JMZ 2207

SPAN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPHL Public Health Fall 2017

SPHL240 **Public Health Engagement**

Credits: 2 Grading Method: Regular

Restriction: Restricted to transfer students with 60 credits or less.

Designed to immediately engage transfer students into the professional culture of public health, this course will focus upon successfully negotiating a large public institution while emphasizing the importance of 1) intellectual scholarship, 2) cultivation of mentor relationships, 3) internships, 4) career opportunities, and 5) direct engagement in the improvement of personal health through physical activity.

Must be a student in PHSC, KNES, FMSC or HLTH.

0101	Andrea Romeo, Jaime Oliver TuTh 11:00am - 12:15pm	Seats (Total: 30) SPH 0107	

STAT Statistics and Probability Fall 2017

STAT100 **Elementary Statistics and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100, MATH107 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

0111	Susan Mazzullo MW 10:00am - 10:50am MWF 8:00am - 8:50am	Seats (Total: 28) ARM 0126 PHY 4206	Discussion

0121	Susan Mazzullo MW 10:00am - 10:50am MWF 9:00am - 9:50am	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0131	Susan Mazzullo MW 10:00am - 10:50am MWF 11:00am - 11:50am	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0141	Susan Mazzullo MW 10:00am - 10:50am MWF 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0151	Susan Mazzullo MW 10:00am - 10:50am MWF 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0161	Susan Mazzullo MW 10:00am - 10:50am MWF 2:00pm - 2:50pm	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0171	Susan Mazzullo MW 10:00am - 10:50am TuTh 8:00am - 9:15am	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0181	Susan Mazzullo MW 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0191	Susan Mazzullo MW 10:00am - 10:50am TuTh 11:00am - 12:15pm	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0192	Susan Mazzullo MW 10:00am - 10:50am TuTh 12:30pm - 1:45pm	Seats (Total: 28) ARM 0126 PHY 4206	Discussion
0211	Casey Cremins MW 1:00pm - 1:50pm MWF 10:00am - 10:50am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion

0221	Casey Cremins MW 1:00pm - 1:50pm MWF 11:00am - 11:50am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0231	Casey Cremins MW 1:00pm - 1:50pm MWF 12:00pm - 12:50pm	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0241	Casey Cremins MW 1:00pm - 1:50pm MWF 2:00pm - 2:50pm	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0251	Casey Cremins MW 1:00pm - 1:50pm TuTh 8:00am - 9:15am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0261	Casey Cremins MW 1:00pm - 1:50pm TuTh 9:30am - 10:45am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0271	Casey Cremins MW 1:00pm - 1:50pm TuTh 11:00am - 12:15pm	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0281	Casey Cremins MW 1:00pm - 1:50pm TuTh 12:30pm - 1:45pm	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0301	Archana Khurana MW 12:00pm - 12:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 30) CHM 1228 PHY 4206	
FC01	Stefan Poikonen TuTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0101	
FC02	Stefan Poikonen TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0305	

FC03	Barry Spieler TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0306	

STAT386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS-Mathematics Department.

2801	Abram Kagan Contact instructor or department for details.	Seats (Total: 10)	
5001	Paul Smith Contact instructor or department for details.	Seats (Total: 10)	

STAT400 **Applied Probability and Statistics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

0111	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 MTH 0303	Discussion
0112	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 MTH B0429	Discussion
0113	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 25) ESJ 0224 MTH 0201	Discussion

0121	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 MTH 0305	Discussion
0122	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 JMZ 0122	Discussion
0123	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 25) ESJ 0224 MTH 1313	Discussion
0131	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0305	Discussion
0132	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0201	Discussion
0133	Hatice Sahinoglu MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 25) ESJ 0224 MTH 0106	Discussion
0211	John Millson TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0105	Discussion
0212	John Millson TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0411	Discussion
0213	John Millson TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0305	Discussion
0221	John Millson TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0105	Discussion

0222	John Millson TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0411	Discussion
0223	John Millson TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0305	Discussion
0231	John Millson TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0307	Discussion
0232	John Millson TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0401	Discussion
0233	John Millson TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0305	Discussion
0311	Casey Cremins TuTh 3:30pm - 4:45pm W 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0304	Discussion
0312	Casey Cremins TuTh 3:30pm - 4:45pm W 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0103	Discussion
0313	Casey Cremins TuTh 3:30pm - 4:45pm W 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 0106	Discussion
0321	Casey Cremins TuTh 3:30pm - 4:45pm W 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0407	Discussion
0322	Casey Cremins TuTh 3:30pm - 4:45pm W 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0103	Discussion

0323	Casey Cremins TuTh 3:30pm - 4:45pm W 9:00am - 9:50am	Seats (Total: 29) ARM 0126 MTH 0106	Discussion
0331	Casey Cremins TuTh 3:30pm - 4:45pm W 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0305	Discussion
0332	Casey Cremins TuTh 3:30pm - 4:45pm W 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0307	Discussion
0333	Casey Cremins TuTh 3:30pm - 4:45pm W 11:00am - 11:50am	Seats (Total: 29) ARM 0126 MTH 0401	Discussion

STAT401 **Applied Probability and Statistics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

0101	Susan Mazzullo MWF 2:00pm - 2:50pm	Seats (Total: 34) MTH 0306	
0201	Joan Ren TuTh 12:30pm - 1:45pm	Seats (Total: 31) MTH 0303	
0301	Hatice Sahinoglu TuTh 11:00am - 12:15pm	Seats (Total: 31) MTH 0106	
0401	Joan Ren TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0407	
0501	Archana Khurana TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0409	

STAT410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Also offered as: SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

0101	Peter Nandori MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH 0307
0201	Maria Cameron TuTh 2:00pm - 3:15pm	Seats (Total: 32) MTH 0303
0301	Christian Zickert TuTh 3:30pm - 4:45pm	Seats (Total: 32) MTH 0303
0401	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 32) MTH B0421
0501	Jonathan Rosenberg MWF 9:00am - 9:50am	Seats (Total: 25) MTH 0102

STAT420 **Introduction to Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (SURV410, STAT410). Also offered as: SURV420. Credit only granted for: STAT420 or SURV420.

Point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood. Confidence intervals for parameters of normal distribution. Hypothesis testing, most powerful tests, likelihood ratio tests. Chi-square tests, analysis of variance, regression, correlation. Nonparametric methods.

0101	Takumi Saegusa TuTh 9:30am - 10:45am	Seats (Total: 30) MTH B0421

STAT430 **Introduction to Statistical Computing with SAS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410).

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

0101	Susan Mazzullo MWF 12:00pm - 12:50pm	Seats (Total: 35) MTH 0201
0201	Benjamin Kedem MWF 2:00pm - 2:50pm	Seats (Total: 29) EGR 2116
0301	Tingni Sun TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH B0423
0401	Timothy Pilachowski MWF 3:00pm - 3:50pm	Seats (Total: 29) MTH 0411
0501	Christine Nickel TuTh 5:00pm - 6:15pm	Seats (Total: 25) MTH 0104

STAT440 **Sampling Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT401, STAT420). Credit only granted for: STAT440 or SURV440.

Simple random sampling. Sampling for proportions. Estimation of sample size. Sampling with varying probabilities. Sampling: stratified, systematic, cluster, double, sequential, incomplete.

0101	Natalia Tchetcherina MWF 10:00am - 10:50am	Seats (Total: 25) ITV 1111
0201	Natalia Tchetcherina MWF 2:00pm - 2:50pm	Seats (Total: 25) MTH 0201

STAT464 **Introduction to Biostatistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one semester of calculus. Restriction: Junior standing or higher. Credit only granted for: BIOE372 or STAT464. Additional information: Not acceptable toward degrees in MATH/STAT.

Probabilistic models. Sampling. Some applications of probability in genetics. Experimental designs. Estimation of effects of treatments. Comparative experiments. Fisher-Irwin test. Wilcoxon tests for paired comparisons.

0101	Raluca Rosca	Seats (Total: 27)
	MWF 11:00am - 11:50am	MTH 0405

STAT470 **Actuarial Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Recommended: STAT400.

Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.

0101	Natalia Tchetcherina	Seats (Total: 31)
	MWF 11:00am - 11:50am	ITV 1111

STAT498A **Selected Topics in Statistics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT600 **Probability Theory I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT410.

Probability space; distribution functions and densities; Poissson limit theoreom; de Moivre-Laplace theorem; measure-theoretic definition of expectation; classification of measures on R; convergence of random variables; Radon-Nikodym theorem;LP spaces; conditional probabilities; independence of events, sigma-algebras and random variables; Bayes' theo rem; pi-systems and Dynkin systems; discrete Markov chains; random walks; gambler's ruin problem; Markov chains on a general phase space; Borel-cantelli lemmas; Kolmogorov inequality; three series theorem; laws of large numbers.

0101	Leonid Koralov	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 0105

STAT689 **Research Interactions in Statistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

STAT700 **Mathematical Statistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT410; or students who have taken courses with comparable content may contact the department.

Sampling distributions including noncentral chi-squared, t, F. Exponential families, completeness. Sufficiency, factorization, likelihood ratio. Decision theory, Bayesian methods, minimax principle. Point estimation. Lehmann-Scheffe and Cramer-Rao theorems. Set estimation.

Offered fall only.

0101	Benjamin Kedem	Seats (Total: 25)
	MWF 10:00am - 10:50am	PLS 1111

STAT705 **Computational Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420. Recommended: Have some programming experience (any language). Credit only granted for: STAT705 or STAT798C. Formerly: STAT798C.

Modern methods of computational statistics and their application to bot practical problems and research. S-Plus and SAS programming with emphasis on S-Plus. S-Plus objects and functions, and SAS procedures. Topics include data management and graphics, Monte Carlo and simulation, bootstrapping, numerical optimization in statistics, linear and generalized linear models, nonparametric regression, time series analysis.

0101	Eric Slud	Seats (Total: 27)
	MW 5:00pm - 6:15pm	MTH 1308

STAT740 **Linear Statistical Models I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420.

Least squares, general linear models, estimability and Gauss-Markov theorem. Simple and multiple linear regression, analysis of residuals and diagnostics, polynomial models, variable selection. Qualitative predictors, one and two way analysis of variance, multiple comparisons, analysis of covariance. Nonlinear least squares. High-level statistical computer software will be used for data analysis throughout the course.

0101	Paul Smith	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0409

STAT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT808A **Selected Topics in Probability**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818A **Selected Topics in Statistics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818B **Selected Topics in Statistics; Selected Topics in SPDE**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Sandra Cerrai	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MTH 2300

STAT818D **Selected Topics in Statistics; Markov Processes and PDE's**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Mark Freidlin	Seats (Total: 17)
	TuTh 12:30pm - 1:45pm	MTH 2300

STAT818G **Selected Topics in Statistics; High Dimensional Data**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Tingni Sun	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 2202

STAT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV Survey Methodology Fall 2017

SURV400 **Fundamentals of Survey and Data Science**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: STAT100; or permission of BSOS-Joint Program in Survey Methodology department. Restriction: Course open to SURV certificate students, SURV Advanced Special Students, and SURV undergraduate minors. Graduate students from other departments may enroll with permission from the department. Credit only granted for: SURV699M or SURV400. Formerly: SURV699M.

The course introduces the student to a set of principles of survey and data science that are the basis of standard practices in these fields. The course exposes the student to key terminology and concepts of collecting and analyzing data from surveys and other data sources to gain insights and to test hypotheses about the nature of human and social behavior and interaction. It will also present a framework that will allow the student to evaluate the influence of different error sources on the quality of data.

SVW1	Jennifer Sinibaldi **Meets August 30, 2017 - November 29, 2017** W 2:00pm - 2:50pm Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.*	Seats (Total: 15) ONLINE

SURV410 Introduction to Probability Theory

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; or permission of BSOS-Joint Program in Survey Methodology department. Also offered as: STAT410. Credit only granted for: SURV410 or STAT410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments, characteristic functions, and limit theorems.

0101	Peter Nandori MWF 1:00pm - 1:50pm	Seats (Total: 32) MTH 0307
0201	Maria Cameron TuTh 2:00pm - 3:15pm	Seats (Total: 32) MTH 0303
0301	Christian Zickert TuTh 3:30pm - 4:45pm	Seats (Total: 32) MTH 0303

0401	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 32) MTH B0421
0501	Jonathan Rosenberg MWF 9:00am - 9:50am	Seats (Total: 25) MTH 0102

SURV615 **Statistical Methods I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a two course sequence in probability and statistics; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Survey Methodology (Master's) program; or permission of instructor.

First course in a two term sequence in applied statistical methods covering topics such as regression, analysis of variance, categorical data, and survival analysis.

It runs concurrently with the University of Michigan course.

0101	Taylor Lewis **Meets September 4, 2017 - December 12, 2017** Tu 5:00pm - 7:30pm	Seats (Total: 20) LEF 1208
SV01	Taylor Lewis **Meets September 4, 2017 - December 12, 2017** Tu 5:00pm - 7:30pm *Meets at the Census Bureau-T10.*	Seats (Total: 5) Location: TBA

SURV621 **Fundamentals of Data Collection I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

First semester of a two-semester sequence that provides a broad overview of the processes that generate data for use in social science research. Students will gain an understanding of different types of data and how they are created, as well as their relative strengths and weaknesses. A key distinction is drawn between data that are designed, primarily survey data, and those that are found, such as administrative records, remnants of online transactions, and social media content. The course combines lectures, supplemented with assigned readings, and practical exercises. In the first semester, the focus will be on the error that is inherent in data, specifically errors of representation and errors of measurement, whether the data are designed or found. The psychological origins of survey responses are examined as a way to understand the measurement error that is inherent in answers. The effects of the mode of data collection (e.g., mobile web versus telephone interview) on survey responses also are examined.

0101	Katharine Abraham, Frederick Conrad	Seats (Total: 25)
	Meets September 11, 2017 - December 11, 2017	
	M 3:30pm - 6:30pm	LEF 1208

SURV623 **Data Collection Methods in Survey Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV400; or students who have taken courses with comparable content may contact the department.

Review of alternative data collection methods used in surveys, such as current advances in computer-assisted telephone interviewing (CATI), computer-assisted personal interviewing (CAPI), and other methods such as touchtone data entry (TDE) and voice recognition (VRE).

SVW1	Christopher Antoun	Seats (Total: 15)
	Meets August 28, 2017 - November 29, 2017	
	Tu 6:00pm - 6:50pm Contact instructor or department for details.	ONLINE
	This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.	

SURV626 **Sampling**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Joint Program in Survey Methodology department; and must have completed an introductory graduate level statistics course covering material through OLS and logistic regression.

Practical aspects of sample design. The course will cover the main techniques used in sampling practice: simple random sampling, stratification, systematic selection, cluster sampling, multistage sampling, and probability proportional to size sampling. The course will also cover sampling frames, cost models, and sampling error (variance) estimation techniques.

SVW1	Raphael Nishimura	Seats (Total: 15)
	Meets October 2, 2017 - November 30, 2017	
	W 7:00pm - 8:00pm Contact instructor or department for details.	ONLINE
	This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To request a seat, please go to: https://jointprogram.umd.edu/online/our-courses	

SURV632 **Social and Cognitive Foundations of Survey Measurement**

Credits: 3 Grading Method: Regular, Audit

Major sources of survey error-such as reporting errors and nonresponse bias-from the perspective of social and cognitive psychology and related disciplines. Topics: psychology of memory and its bearing on classical survey issues (e.g., underreporting and telescoping); models of language use and their implications for the interpretation and misinterpretation of survey questions; and studies of attitudes, attitude change, and their possible application to increasing response rates and improving the measurement of opinions. Theories and findings from the social and behavioral sciences will be explored.

Restricted to SURV majors only.

0101	Frederick Conrad	Seats (Total: 15)
	Meets September 4, 2017 - December 12, 2017	
	W 9:00am - 11:45am	LEF 2208

SURV641 **Survey Practicum II**

Credits: 2 Grading Method: Regular

Prerequisite: SURV620. Restriction: Must be in one of the following programs (Survey Methodology (Doctoral); Survey Methodology (Master's)). Credit only granted for: SURV621 or SURV641. Formerly: SURV621. Additional information: SURV640 and SURV641 must be taken in consecutive semesters.

Second part of applied workshop in sample survey design. Course focus on post data collection process of data processing, editing and anlysis.

0101	Gina Walejko W 4:00pm - 6:00pm	Seats (Total: 20) LEF 2208
SV01	Gina Walejko W 4:00pm - 6:00pm *Meets at the Census Bureau-T10.*	Seats (Total: 5) Location: TBA

SURV650 **Economic Measurement**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a course in intermediate microeconomics. Credit only granted for: SURV650 or SURV699L. Formerly: SURV699L.

An introduction to the field of economic measurement. Sound economic data are of critical importance to policymakers, the business community, and others. Emphasis is placed on the economic concepts that underlie key economic statistics and the translation of those concepts into operational measures. Topics addressed include business survey sampling; the creation of business survey sampling frames; the collection of data from businesses; employment and earnings statistics; price statistics; output and productivity measures; the national accounts; and the statistical uses of administrative data. Lectures and course readings assume prior exposure to the tools of economic analysis.

SV01	Katharine Abraham Tu 9:00am - 11:40am *Meets at the Bureau of Labor Statistics in the BLS Conference and Training Center G440. Please check the signs at the entrance for each class location as classrooms will vary.*	Seats (Total: 24) Location: TBA

SURV662 **An Introduction to Small Area Estimation Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT400; and permission of instructor; and STAT401. Restriction: Permission of instructor.

There is a growing demand to produce reliable estimates of various socio-economic and health characteristics at both national and sub-national levels. However, data availability at the sub-national (small area) level from a survey is often limited by cost and thus analysts must make the best possible use of all available information. The course will begin with a history of small-area estimation and different uses of small-area statistics in both public and private sectors. This course will provide an introduction to the main concepts and issues in small estimation and describes various approaches for estimating different small area parameters. Topics include standard design-based methods, various traditional indirect methods and the state-of-the-art small-area estimation methods that use both Bayesian and empirical best prediction methods. Monte Carlo simulation results and data analysis using available statistical software will be presented.

SVW1	Carolina Franco **Meets August 28, 2017 - November 29, 2017** M 9:00am - 9:50am Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.*	Seats (Total: 8) ONLINE
SVW2	Carolina Franco **Meets August 28, 2017 - November 29, 2017** W 9:00am - 9:50am Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.*	Seats (Total: 8) ONLINE

SURV699 **Special Topics in Survey Methodology; Reading in Survey Methodology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frederick Conrad Contact instructor or department for details.	Seats (Total: 10)
0301	Stanley Presser Contact instructor or department for details.	Seats (Total: 10)

SURV699Z **Special Topics in Survey Methodology; Applied Data Analytics**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Class will meet on the following dates; 10/11/17 - 10/13/17, 11/01/17-11/03/17, 11/15/17 - 11/17/17, 12/06/17-12/08/17. Innovative forms of data never seen before, combined with traditional survey and administrative data, provide a rich resource for data-driven decisions in public policy and the public sector. The program's design offers hands-on training in the context of real challenges facing the sector, by providing direct collaboration among government agencies and students in the program. Skills learned as part of the project work are SQL, Python, Record Linkage, Database Management, use of APIs, Web Scraping, Basic Machine Learning, Text Analysis, Analysis of Network and Geospatial data, Inference, Privacy and Ethics.

0101	Frauke Kreuter	Seats (Total: 10)
	Meets October 11, 2017 - December 8, 2017	
	WThF 9:00am - 6:00pm	LEF 1218
	Contact instructor or department for details.	

SURV701 **Analysis of Complex Sample Data**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SURV625.

Analysis of data from complex sample designs covers: the development and handling of selection and other compensatory weights; methods for handling missing data; the effect of stratification and clustering on estimation and inference; alternative variance estimation procedures; methods for incorporating weights, stratification and clustering, and imputed values in estimation and inference procedures for complex sample survey data; and generalized design effects and variance functions. Computer software that takes account of complex sample design in estimation.

It runs concurrently with the University of Michigan course.

0101	Yan Li	Seats (Total: 15)
	Meets September 4, 2017 - December 12, 2017	
	Th 12:30pm - 3:30pm	LEF 2208

SURV720 **Total Survey Quality I**

Credits: 2

Grading Method: Regular, Audit

Prerequisite: SURV625. Restriction: Permission of instructor. Credit only granted for: (SURV720 and SURV721) or SURV723. Formerly: SURV723.

Total error structure of sample survey data, reviewing current research findings on the magnitudes of different error sources, design features that affect their magnitudes, and interrelationships among the errors. Coverage, nonresponse, sampling, measurement, and postsurvey processing errors. For each error source reviewed, social science theories about its causes and statistical models estimating the error source are described. Empirical studies from the survey methodological literature are reviewed to illustrate the relative magnitudes of error in different designs. Emphasis on aspects of the survey design necessary to estimate different error sources. Relationships to show how attempts to control one error source may increase another source. Attempts to model total survey error will be presented.

It runs concurrently with the University of Michigan course.

0101	Christopher Antoun	Seats (Total: 20)
	Meets September 11, 2017 - December 12, 2017	
	M 10:20am - 12:00pm	LEF 1208

SURV722 **Research Design: Causal inference from randomized and observational data**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Survey Methodology (Doctoral) program; or must be in Survey Methodology (Master's) program; or must be in a major within the BSOS-Joint Program in Survey Methodology department; or permission of BSOS-Joint Program in Survey Methodology department.

Research designs from which causal inferences are sought. Classical experimental design will be contrasted with quasi-experiments, evaluation studies, and other observational study designs. Emphasis placed on how design features impact the nature of statistical estimation and inference from the designs. Issues of blocking, balancing, repeated measures, control strategies, etc.

Click Here More Information

0101	Sunghee Lee	Seats (Total: 20)
	Meets September 11, 2017 - December 11, 2017	
	M 3:00pm - 5:45pm	LEF 2208

SURV725 **Item Nonresponse and Imputation**

Credits: 1

Grading Method: Regular, Audit

Prerequisite: Be comfortable with generalized linear models and basic probability theory through coursework or work experience; and familiarity with the statistical software R. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Missing data are a common problem which can lead to biased results if the missingness is not taken into account at the analysis stage. Imputation is often suggested as a strategy to deal with item nonresponse allowing the analyst to use standard complete data methods after the imputation. However, several misconceptions about the aims and goals of imputation make some users skeptical about the approach. In this course we will illustrate why thinking about the missing data is important and clarify which goals a useful imputation method should try to achieve.

SVW1	Jorg Drechsler **Meets September 20, 2017 - October 12, 2017** W 12:00pm - 12:50pm Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.*	Seats (Total: 8) ONLINE
SVW2	Jorg Drechsler **Meets September 20, 2017 - October 12, 2017** Th 11:00am - 11:50am Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.*	Seats (Total: 8) ONLINE

SURV730 **Measurement Error Models**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Prerequisite: SURV623 or SURV630; or have equivalent survey research experience. And must have completed a basic statistics course in regression modeling. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

Measurement error in survey data can significantly distort analyses of substantive interest. Means, totals, and proportions will be off if the average answer people give is inaccurate. However, measurement error distorts not only estimates of means but can also severely bias apparent relationships, conditional probabilities, means differences, and other regression-type analyses. To remove such biases it is therefore essential to estimate the extent of measurement error in survey variables. This can be done using a gold standard or, in the absence of such a standard, modeling the error. This course introduces the latter and trains students to perform regression analyses without the influence of measurement error.

SVW1	Daniel Oberski	Seats (Total: 8)
	Meets November 1, 2017 - December 1, 2017	
	W 12:00pm - 12:50pm Contact instructor or department for details.	ONLINE
	This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have acces to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.	

SURV745 **Practical Tools for Sampling and Weighting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV615, SURV616, and SURV625; or permission of instructor. Credit only granted for: SURV745 or SURV699E. Formerly: SURV699E.

A statistical methods class appropriate for second year Master's students and PhD students. The course will be a combination of hands-on applications and general review of the theory behinddifferent approaches to sampling and weighting. Topics covered include sample size calculations using estimation targets based on relative standard error, margin of error, and power requirements. Use of mathematical programming to determine sample sizes needed to achieve estimation goals for a series of subgroups and analysis variables. Resources for designing area probability samples. Methods of sample allocation for multistage samples. Steps in weighting, including computation of base weights, non response adjustments, and uses of auxiliary data. Non response adjustment alternatives, including weighting cell adjustments, formation of cells using regression trees, and propensity score adjustments. Weighting via post stratification, raking, general regression estimation, and other types of calibration.

0101	Yan Li	Seats (Total: 20)
	Meets September 4, 2017 - December 11, 2017	
	W 1:40pm - 3:00pm Contact instructor or department for details.	LEF 2208

SURV746 **Applications of Statistical Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SURV615 and SURV616; or permission of instructor. Credit only granted for: SURV746 or SURV699R. Formerly: SURV699R.

Designed for students on both the social science and statistical tracks for the two programs in survey methodology, will provide students with exposure to applications of more advanced statistical modeling tools for both substantive and methodological investigations that are not fully covered in other MPSM or JPSM courses. Modeling techniques to be covered include multilevel modeling (with an application to methodological studies of interviewer effects), structural equation modeling (with an application of latent class models to methodological studies of measurement error), classification trees (with an application to prediction of response propensity), and alternative models for longitudinal data (with an application to panel survey data from the Health and Retirement Study). Discussions and examples of each modeling technique will be supplemented with methods for appropriately handling complex sample designs when fitting the models. The class will focus on practical applications and software rather than extensive theoretical discussions.

0101	Brady West	Seats (Total: 20)
	Meets September 4, 2017 - December 11, 2017	
	F 10:00am - 12:45pm	LEF 2208

SURV829 **Doctoral Research Seminar in Survey Methodology**

Credits: 3-6

Grading Method: Regular

An advanced research seminar for students preparing to do research or take doctoral comprehensive examinations.

0101	James Wagner, Stanley Presser	Seats (Total: 10)
	Meets September 4, 2017 - December 12, 2017	
	W 1:30pm - 4:00pm	LEF 1208

SURV898 **Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

TDPS Theatre, Dance and Performance Studies — Fall 2017

TDPS201 **Introduction to Technical Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within ARHU-Dance department; or must be in a major within ARHU-Theatre department. Credit only granted for: DANC210 and THET114 or TDPS201. Formerly: DANC210 and THET114.

Students are provided with an overview of topics related to the technical production of theatre and dance including: scenic, prop and costume construction, lighting, sound and video execution and management structures.

Students must pay a $25.00 lab fee.

5501	Michael Driggers	Seats (Total: 25)	
	MW 4:00pm - 4:50pm	PAC 1809	
	F 3:30pm - 5:30pm	PAC 1702	Lab

TDPS362 **Alexander Technique**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET116, THET223, and TDPS201; or (DANC218 and DANC219). And permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399J, THET362 or TDPS362. Formerly: THET399J and THET362.

Based on the F.M. Alexander Technique, students will learn to recognize habit patterns that interfere with how they function and express themselves so that they can make conscious choices as a performing artist.

Students must pay a $25 lab fee.

5501	Leslie Felbain	Seats (Total: 20)	
	TuTh 9:30am - 11:20am	PAC 3736	

TDPS458O **Special Topics in Advanced Performing Arts; Voice, Text, Dance Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay a $25 lab fee. Open to all UMD students.

5501	Alvin Mayes TuTh 3:30pm - 4:45pm	Seats (Total: 15) PAC 1611

TDPS469 **Advanced Practicum in Stage Management**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A graded course in stage management for theatre and/or dance productions. A hands-on laboratory experience.

0101	Cary Gillett Contact instructor or department for details.	Seats (Total: 8)

TDPS479 **Production Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A graded course in a specified practical aspect of mounting a theatre o dance production. It is a hands-on, purely laboratory experience.

1001	Robert Hunter Contact instructor or department for details.	Seats (Total: 25)
1002	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1003	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1004	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1005	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)
1006	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)

1007	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2001	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2002	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2003	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2004	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2005	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	
2006	Robert Hunter Contact instructor or department for details.	Seats (Total: 15)	

THET Theatre Fall 2017

THET110 **Introduction to the Theatre**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

0101	Caitlin Marshall MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 24) ATL 2324 PLS 1115	 Discussion
0102	Caitlin Marshall MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 24) ATL 2324 ATL 2428	 Discussion
0103	Caitlin Marshall MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 24) ATL 2324 ATL 2416	 Discussion

0104	Caitlin Marshall MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 24) ATL 2324 ATL 2316	Discussion
0105	Caitlin Marshall MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 ATL 1114	Discussion
0201	Caitlin Marshall MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 24) ATL 2324 ATL 1114	Discussion
0202	Caitlin Marshall MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 24) ATL 2324 ATL 1114	Discussion
0203	Caitlin Marshall MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 ATL 0201	Discussion
0204	Caitlin Marshall MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 24) ATL 2324 JMP 1109	Discussion
0205	Caitlin Marshall MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 24) ATL 2324 KNI 1103	Discussion
FC01	Khalid Long TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) JMZ 0125	

THET116 **Fundamentals of Theatrical Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Examines theatre as an environmental art that is realized through collaboration between set, costume, and lighting designers.

Students must pay a $25.00 lab fee.

5501	Mark Costello, Emily Lotz TuTh 3:00pm - 4:50pm	Seats (Total: 20) PAC 2733	

THET222 **Foundations of Acting and Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Students will become familiar with the tools and process of acting through the discipline of acting exercises, analyzing character and performing. Students will research various theatre artists that have contributed to the acting process. Through monologue and scene work students will learn listening skills, communicative, collaborative and embodiment skills and will learn how to use the self in the imaginative process and research. And, most importantly, students will learn creative process through practice.

Students must pay a $25.00 lab fee.

5501	Jennifer Barclay Newsham TuTh 2:00pm - 3:50pm	Seats (Total: 14) PAC 3730	Lab
5502	Scot Reese TuTh 10:00am - 11:50am	Seats (Total: 14) PAC 3730	Lab

THET223 **Text and Context in Western Theatre**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introduction to the analysis and critique of the play script. Students will have the opportunity to read, analyze, and interpret western dramatic literature from a range of periods and styles. Texts are analyzed from a variety of theatrical analytical perspectives, with an eye towards choices theatre artists must make in the creation of a theatrical production.

0101	Kelley Holley TuTh 12:30pm - 1:45pm	Seats (Total: 25) PAC 1809	
0102	Jonelle Walker MW 11:00am - 12:15pm	Seats (Total: 25) PAC 1809	

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269T **Special Topics in Study Abroad II; 20th Century and Contemporary Spanish Theatre**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET274 **Introduction to Stage Management**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Familiarization with the techniques and skills required of a Stage Manager in a theatrical production, including organization, production meetings, rehearsals, tech and running a show. The outcome at the conclusion of the course is the ability to function as an Assistant Stage Manager in a supervised situation.

Students must pay a $25.00 lab fee.

5501	Cary Gillett	Seats (Total: 15)	
	MW 3:00pm - 4:30pm	PAC 1924	

THET284 **Stage Costume Construction I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Study and practical experience in garment construction and related costume crafts as used in theatre costume design. Flat pattern development, corset construction, theatrical sewing techniques and organization of the costume construction process.

Students must pay a $25.00 lab fee.

5501	Susan Chiang	Seats (Total: 12)	
	MW 9:00am - 11:50am	PAC 3749	Lab

THET285 **The Art of Communication and Presentation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

0101	Patrick Crowley MW 10:00am - 11:50am	Seats (Total: 25) PAC 3736
0102	Fraser Stevens TuTh 11:00am - 12:50pm	Seats (Total: 25) PAC 2740
0103	Leslie Felbain TuTh 3:30pm - 5:00pm	Seats (Total: 25) PAC 3736
FC01	Jennifer Ring MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) ASY 3221
FC02	Mary Coy MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) BPS 1236
FC03	Robert Jansen TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) JMZ 2123
FC04	Drew Barker TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) JMZ 1215
FC05	Jennifer Ring TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) KEY 0123

FC06	Robert Jansen MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 23) JMZ 0122

THET286 **Experiential Learning I**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introductory internship in theatre. Constructed to help students in their sophomore year gain practical experience in a supportive work environment in the theatre. Student must research and propose internship to a Faculty Advisor and Internship Venue.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0210	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)

1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET293 **Black Theatre and Performance I**

Credits: 3 | Grading Method: Regular | CORE: HA, D | General Education: DSHU, DSSP, DVUP

Restriction: Sophomore standing or higher.

Thematic and historical survey of African-American drama from the late nineteenth century to the 1960s. Emphasis on sociopolitical context, thematic thrust, issues, styles, the aesthetic reflected in the work, impact on African-American and general theatre audiences.

0101	Leslie Gray MW 2:00pm - 3:45pm	Seats (Total: 25) PAC 1809

THET310 **Voice for the Actor I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and must Interview; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.

Freeing the natural voice. In-depth experience of connection of actor's voice to thought, impulse and emotion. Tools for releasing tension, increasing resonance and range, and refining articulation will be explored.

Students must pay a $25.00 lab fee.

5501	Leigh Smiley	Seats (Total: 16)	
	MW 10:00am - 11:50am	PAC 2740	Lab

THET324 **Character Development**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in THET310 and THET362; or permission of Instructor. And must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher.

European-based physical approach to acting. Primary focus on character development, may include creating original characters and learning how to bring to life an already scripted character. Techniques to explore the soul and psychology of characters and their physical qualities, voice, rhythm and movement.

Students must pay a $25.00 lab fee.

5501	Leslie Felbain	Seats (Total: 12)	
	TuTh 1:30pm - 3:20pm	PAC 3736	Lab

THET328D **Special Topics in Intermediate Theatre and Performance; Theatre for Young Audiences**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Pre-Req Requirements: THET222, THET223, THET116, and TDPS201 or permission of instructor.

0101	Jared Mezzocchi	Seats (Total: 10)	
	MW 12:00pm - 1:50pm	PAC 3736	

THET340 **Playwriting I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, THET116, and TDPS201. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET340 or THET399P. Formerly: THET399P.

Will introduce students to the art of playwriting through exploratory writing exercises, the reading of successful plays, the development of new short scripts, how to make theatrical choices, and how to use the six elements of storytelling.

Students must pay a $25.00 lab fee.

5501	Jennifer Barclay Newsham	Seats (Total: 12)
	MW 10:00am - 11:50am	PAC 1815

THET369I **Special Topics in Study Abroad III; Italian Theater: History, Theory, and Practice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET369L **Special Topics in Study Abroad III; 20th Century and Contemporary Latin American Theatre**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET371 **Scenic Design I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116; and (THET114; or TDPS201). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study of design theory and style. Methods and techniques of coordination of all elements of scenic design for theatre.

Students must pay a $25.00 lab fee.

5501	Mikhail Kachman W 2:00pm - 4:50pm	Seats (Total: 8) PAC 2733	

THET372 **Stage Property Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114; or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Materials and techniques for the design and execution of stage properties with special emphasis on period research, special materials, and special effects.

5501	Timothy Jones Th 6:00pm - 8:50pm	Seats (Total: 10) PAC 1702	

THET373 **Rendering for the Theatre I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study in the techniques and tools of drawing and painting. It is designed for the student to develop rendering and drawing skills for theatrical design presentation.

Students must pay a $25.00 lab fee.

5501	Helen Huang TuTh 1:30pm - 2:50pm	Seats (Total: 8) PAC 2733	Lab

THET386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)

0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2009	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET390 **History of Theatre I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

The history of Western theatre from its origins in classical antiquity through the mid-seventeenth century with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.

0101	Franklin Hildy TuTh 11:00am - 12:15pm	Seats (Total: 25) PAC 1815

THET399 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

0701	Jennifer Barclay Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1401	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1501	Lisa Nathans Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
2009	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET399H **Independent Study; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399W **Independent Study; The London Stage**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399X **Independent Study; The London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET408W **Seminar: Theory and Performance Studies; Performativity of Law and Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

Law is theatre, sport, and business. True stories are creatively told to select audiences and stakes are high. This class will explore the performances and performative power of courtroom trials and testimony, as well as offstage legal culture. We will examine notions of truth, evidence, reason, and justice, and will analyze examples from both the everyday and the sensational.

0101	Laurie Frederik	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PAC 1809

THET411 **Voice for the Actor II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET324 or THET325; and must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher. Credit only granted for: THET311, THET411, or THET499L. Formerly: THET311.

Learn the International Phonetic Alphabet (IPA) and apply to exploratio of sound and language. Designed to increase voice and speech awareness, and create a base knowledge from which to approach any accent or dialect.

Students must pay a $25 lab fee.

5501	Lisa Nathans	Seats (Total: 12)	
	MW 12:00pm - 1:50pm	PAC 2740	

THET425 **Actor's Process II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET325; and must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

A deeper exploration of the work begun in THET325. A continuation of creating a personal process through which the actor can confidently approach any genre of play. Special focus on status and subtext and the world of the playwright.

Students must pay a $25.00 lab fee.

5501	Mitchell Hebert	Seats (Total: 12)	
	MW 2:00pm - 3:50pm	PAC 3730	Lab

THET428L **Special Topics in Advanced Theatre and Performance; Advanced Techniques Lighting Design: Programming**

(Perm req)

Credits: 3

Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Required pre-requisite THET377. Students must pay a $25 lab fee.

5501	Peter Leibold	Seats (Total: 8)
	Tu 1:00pm - 3:50pm	PAC 3731

THET429 **Actor's Studio**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Participation in dramatic roles executed under faculty supervision in the department's productions. Eligible students must make commitments and plan performances with course instructor during pre-registration.

Contact department for information to register for this course.

THET452 **Musical Theatre Workshop II**

Credits: 3

Grading Method: Regular

Prerequisite: Must audition. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Development of the ability to move, act and express through the media o lyric and music from the integrated musicals of the 1960s through the development of concert and rock/pop musicals.

Students must pay a $25 lab fee".

5501	Scot Reese	Seats (Total: 12)	
	Th 1:30pm - 4:30pm	PAC 2740	

THET472 **Scene Painting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Scene painting techniques and materials. Three-dimensional realistic scenery and non-realistic two-dimensional projects.

Students must pay a $25 lab fee.

5501	Ann Chismar	Seats (Total: 7)	
	F 10:00am - 1:50pm	PAC 1702	Lab

THET477 **Design Studio in Lighting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET377; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Also offered as: THET659. Credit only granted for: THET477 or THET659.

Designed for students who have successfully completed THET377 and wish to further develop their lighting design skills. Emphasis is on theoretical design of productions and realized light lab projects. Particular design projects will vary.

Students must pay a $25.00 lab fee.

5501	Brian MacDevitt	Seats (Total: 3)	
	MW 3:00pm - 4:50pm	PAC 2755	Lab

THET481 **Theatre Graphics II: Computer Assisted Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and THET116; and permission of ARHU-Theatre department. Restriction: Sophomore standing or higher.

Study and practical application of computer generated graphical design for use in theatrical production.

Students must pay a $25.00 lab fee.

5501	Andrew Cissna	Seats (Total: 8)	
	MW 11:00am - 12:50pm	PAC 2727	Lab

THET489D **Special Topics in Theatre History from 1800 to Present; Asian American Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the history of world theatre and performance from 1800 to present.

Also offered as AAST498D. Credit granted for THET489D or AAST498D.

0101	Esther Lee	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PAC 1809	

THET499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Barclay Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1001	Aaron Posner Contact instructor or department for details.	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1401	Andrew Cissna Contact instructor or department for details.	Seats (Total: 5)
1501	Lisa Nathans Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)
1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)

1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
2009	Raye Leith Contact instructor or department for details.	Seats (Total: 5)

THET499B **Independent Study; Figure Drawing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Students must pay a $25 lab fee

5501	Raye Leith F 9:00am - 11:50am	Seats (Total: 10) PAC 3736

THET600 **Introduction to Graduate Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Also offered as: THET700. Credit only granted for: THET600 or THET700.

A research and bibliography course with special emphasis on research in theatre. Required of all M.A. and M.F.A. students.

0101	Franklin Hildy W 4:00pm - 6:30pm	Seats (Total: 12) PAC 1815

THET606 **Teaching Theatre**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Strategies and materials for teaching a typical introductory course in theatre, with emphasis on specific problems of classroom instruction (e.g., creating a supportive climate, promoting active learning by students, constructing appropriate tests, adapting methods to content, and resolving discipline problems).

0101	Faedra Carpenter	Seats (Total: 10)	
	Tu 10:00am - 10:50am	PAC 1815	

THET639 **Advanced Design Studio in Scenery**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Daniel Conway	Seats (Total: 8)	
	TuTh 9:00am - 10:50am	PAC 2755	

THET649 **Advanced Design Studio in Costume**

Credits: 3

Grading Method: Regular, Audit

A series of carefully and individually structured assignments and projects that allows students to progress in their design training.

Students must pay a $25.00 lab fee.

0101	Helen Huang	Seats (Total: 8)	
	TuTh 10:00am - 11:50am	PAC 2733	Lab

THET659 **Advanced Design Studio in Lighting**

Credits: 3

Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Andrew Cissna F 3:00pm - 6:00pm	Seats (Total: 6) PAC 2755	
0102	Brian MacDevitt MW 3:00pm - 4:50pm	Seats (Total: 6) PAC 2755	Lab

THET669 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

THET669D **Independent Study; Advanced Media Design**

Credits: 1-3 Grading Method: Regular, Audit

5501	Jared Mezzocchi F 9:00am - 12:00pm	Seats (Total: 8) PAC 2727	Lab

THET669F **Independent Study; Figure Drawing**

Credits: 3 Grading Method: Regular, Audit

5501	Raye Leith F 9:00am - 11:50am	Seats (Total: 10) PAC 3736

THET669P **Independent Study; Photoshop**

Credits: 3 Grading Method: Regular, Audit

5501	Daniel Conway MW 9:00am - 10:50am	Seats (Total: 8) PAC 2727	Lab

THET679 **Advanced Design Studio in Multimedia and Projection Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25 lab fee.

5501	Jared Mezzocchi	Seats (Total: 5)
	Contact instructor or department for details.	

THET698F **Seminar: Theatre History; African American Theatre**

Credits: 3 Grading Method: Regular, Audit

Studies in theatre history from classical antiquity to the present.

0101	Faedra Carpenter	Seats (Total: 10)
	Tu 1:30pm - 4:00pm	PAC 1815

THET700 **Introduction to Doctoral Studies in Theatre**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must be admitted to the Ph.D. program in Theatre. Also offered as: THET600. Credit only granted for: THET600 or THET700.

Basic skills in theatre research.

0101	Franklin Hildy	Seats (Total: 12)
	W 4:00pm - 6:30pm	PAC 1815

THET711 **Critical Theory**

Credits: 3 Grading Method: Regular

Prerequisite: THET700. Recommended: THET712.

A doctoral methods course. Major developments in modern and postmodern critical theory with particular emphasis on application to the fields of Theatre and Performance Studies.

0101	James Harding	Seats (Total: 10)
	Th 4:00pm - 6:30pm	PAC 1815

THET788 **Master's Tutorial**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Collaboration with a faculty member on joint creative and artistic projects.

Contact department for information to register for this course.

THET789 **Master's Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Participation in creative and artistic activities with professional level theatrical organizations.

Contact department for information to register for this course.

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

THET888 **Doctoral Practicum in Theatre**

(Perm req)

Credits: 1-6 Grading Method: Regular

Critical analysis of a phase of a professional field of theatre. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

THET889 **Doctoral Tutorial in Theatre**

(Perm req)

Credits: 1-6 Grading Method: Regular

Individual research in theatre.

Contact department for information to register for this course.

THET898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

THET899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership Fall 2017

TLPL101 **Inquiry Teaching of STEM in Elementary School**

Credits: 1 Grading Method: Regular

Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three-hour block of time during the local elementary school operational hours from 7:45 am to 3:15 pm. A background check is required.

Exploration of teaching science or mathematics as a career. Discussions include standards-based lesson design and various teaching strategies. Fieldwork consists of observing, planning and teaching inquiry-based lessons to students in grades three to six in local elementary schools.

0101	Kayla White, Julie Brenner M 2:30pm - 3:50pm	Seats (Total: 22) PHY 1108
0301	Steven Karig, Kayla White M 4:00pm - 5:20pm	Seats (Total: 22) PHY 1108
0401	Sarah Henson-Darko, Steven Karig Th 2:00pm - 3:20pm	Seats (Total: 22) PHY 1108

TLPL102 **Inquiry Teaching of STEM in Middle School**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: Must have completed TLPL101. Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three hour block of time during the local middle school operational hours from 7:45 am to 3:15 pm. A background check is required.

Second course in the Terrapin Teachers teacher preparation sequence. Students gain field experience and continue exploring teaching as a career by conducting teacher observations, and planning and implementing lessons in local, high-need middle school classrooms. Students work closely with UM master teachers to build upon the inquiry-based teaching practices developed in TLPL 101. Students work with mathematics and science curricula while attending to state and district standards, in order to develop and enact lessons that are responsive to students' reasoning in math and science.

0101	Anita Sanyal M 4:00pm - 5:50pm	Seats (Total: 24) PLS 1115

TLPL418 **Teaching Residency**

Credits: 3 Grading Method: Sat-Fail

An extended teaching internship in an Elementary Professional Development School. School placements to be arranged.

0101	Deborah Lewin Contact instructor or department for details. F 9:00am - 10:50am	Seats (Total: 0) SQH 1103
0201	Susan Denvir Contact instructor or department for details. F 9:00am - 10:50am	Seats (Total: 0) SQH 1103
0301	Tracy Dunheimer Contact instructor or department for details. F 9:00am - 10:50am	Seats (Total: 0) SQH 1103

TLPL446 **Language Variation and Multilingualism in Elementary Classrooms**

Credits: 3 Grading Method: Regular

Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Issues in language variation and multilingualism in elementary classrooms, schools and communities with a focus on classroom practice, assessment, and policy.

0101	Christina Budde Tu 8:30am - 11:15am	Seats (Total: 0) EDU 2212
0201	Kellie Rolstad W 12:00pm - 2:45pm	Seats (Total: 0) EDU 1315
0301	Natalia Guzman M 8:30am - 11:15am	Seats (Total: 0) EDU 1107

TLTC Teaching and Learning Transformation Center Fall 2017

TLTC333 **Fundamentals of Academic Peer Mentoring**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of TLTC required - enrollment restriction.

How should scientific research influence the way we study and advance the academic performance of others? Learn about the scholarship of teaching and learning and develop the applied skills to support active learning as an academic peer mentor. Whether or not you ultimately pursue a career as an educator, the more effectively you can coach and support the performance of other people, and the more successful you will be. Guided online and face-to-face participation will culminate in a portfolio of your teaching activities and professional development.

Click here for more course information.

0101	Alexis Williams	Seats (Total: 100)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

TLTC399 **Independent Study in Academic Peer Mentoring**

(Perm req)

Credits: 1-3 Grading Method: Regular

Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).

Prerequisite: Must have completed or be concurrently enrolled in TLTC333. Restriction: Permission of TLTC required - enrollment restriction. Repeatable to 6 credits.

Contact department for information to register for this course.

TLTC798 **University Teaching and Learning**

(Perm req)

Credits: 1-2 Grading Method: Regular

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the Universtiy Teaching and Learning Program.

Special topics course directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the University Teaching and Learning Program. Click here for more course information: tltc.umd.edu/798

0101	Marissa Stewart	Seats (Total: 20)
	Tu 2:30pm - 4:30pm	ESJ 1309

TOXI Toxicology Fall 2017

TOXI609 **Methods in Toxicology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Provides the opportunity for graduate students to become familiar with laboratory methods used by the staff to study the effect of toxins and environmental pollutants on living systems. Permission and credit arranged individually.

0101	Judd Nelson	Seats (Total: 5)
	Contact instructor or department for details.	

UMEI Maryland English Institute Fall 2017

UMEI002 **English as a Foreign Language: Intermediate I**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has had some previous instruction in English. Emphasis on improving listening and speaking skills, on mastering intermediate grammatical structures, and on expanding vocabulary. Includes practice in reading and writing appropriate to the level. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Ahri Lee, Raymond Smith	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	COL 3109
	MTuWThF 1:00pm - 2:50pm	COL 3109

UMEI003 **English as a Foreign Language: Intermediate II**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has mastered the essential structures of English grammar. Emphasis on improving communicative skills for a wide range of linguistic situations, on rapid expansion of vocabulary, and on improving reading comprehension and basic writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Rachel Korr, Deborah Turner	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	HBK 0108
	MTuWThF 1:00pm - 2:50pm	HBK 0108

UMEI004 **English as a Foreign Language: Intermediate III**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has a good command of the basic features of spoken and written English. Emphasis on refining speaking and listening skills, on improving reading speed and comprehension of academic texts, and on developing writing skills for academic courses. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Melanie Baker, Caralyn Bushey	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	COL 3110
	MTuWThF 1:00pm - 2:50pm	COL 3110
0201	Caralyn Bushey, Christopher Vizcarrondo	Seats (Total: 20)
	MWF 9:00am - 11:50am	ATL 2330
	Tu 9:00am - 11:50am	ATL 2330
	Th 9:00am - 11:50am	ATL 1106
	MWF 1:00pm - 2:50pm	ATL 2352
	TuTh 1:00pm - 2:50pm	SQH 2113
0301	Louise Godley, Heather Mehrtens	Seats (Total: 20)
	MTuWThF 9:00am - 11:50am	SQH 1111
	MTuWThF 1:00pm - 2:50pm	HBK 0125
0401	Heather Mehrtens, Caroline Thompson	Seats (Total: 20)
	MWF 9:00am - 11:50am	SQH 1123
	TuTh 9:00am - 11:50am	SQH 1123
	MWF 1:00pm - 2:50pm	JMZ 1120
	Tu 1:00pm - 2:50pm	JMZ 1120
	Th 1:00pm - 2:50pm	JMZ 1120

UMEI005 **Advanced English as a Foreign Language**

Credits: 6 Grading Method: Sat-Fail, Audit

Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Dee Broughton	Seats (Total: 15)
	MTuThF 9:00am - 10:50am	TWS 1320
	This section is restricted to Graduate Students.	

0201	Lori Fredricks MF 1:00pm - 2:50pm Tu 1:00pm - 2:50pm Th 1:00pm - 2:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) SPH 1301 EGR 2154 EGR 3111
0301	Dee Broughton MTuThF 1:00pm - 2:50pm *This section is restricted to Graduate Students.*	Seats (Total: 15) PHY 4222
0401	Deborah Turner MF 9:00am - 10:50am TuTh 9:00am - 10:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) PHY 4222 SQH 2120
0501	Annelies Galletta MTuWTh 6:00pm - 7:50pm *This section is restricted to Graduate Students.*	Seats (Total: 15) JMZ 1103
0601	Eric Walker MF 8:00am - 9:50am TuTh 8:00am - 9:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) JMZ 1122 ARC 1125
0701	Charles Duquette MF 9:00am - 10:50am TuTh 9:00am - 10:50am *This section is restricted to Graduate Students.*	Seats (Total: 15) JMZ 1123 JMZ 2117
0801	Eda Yoon MF 9:00am - 10:50am TuTh 9:00am - 10:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ATL 2316 ATL 1114
0901	Annelies Galletta MTuWTh 3:00pm - 4:50pm *This section is restricted to Graduate Students.*	Seats (Total: 15) COL 3109

1001	Eric Walker MTuThF 11:00am - 12:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ARC 1127
1201	Eda Yoon MF 12:00pm - 1:50pm TuTh 12:00pm - 1:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) SQH 1103 LEF 1221
1401	Lori Fredricks MF 10:00am - 11:50am TuTh 10:00am - 11:50am *This section is restricted to Undergraduate Students.*	Seats (Total: 15) PHY 1204 JMZ 1224
1601	Nasreen Abbas MF 1:00pm - 2:50pm TuTh 1:00pm - 2:50pm *This section is restricted to Undergraduate Students.*	Seats (Total: 15) ATL 2316 LEF 1171

UMEI006 **English Pronunciation**

(Perm req)

Credits: 2 Grading Method: Sat-Fail, Audit

Restriction: Must have graduate standing.

Individualized class for the non-native speaker of English. Diagnosis of individual pronunciation problems. Practice in the correct pronunciation of English sounds and improvement of ability to speak English with proper stress and intonation patterns. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Marilena Draganescu MW 1:00pm - 2:30pm	Seats (Total: 16) KNI 1105
0201	Jonathan Malone TuTh 9:00am - 10:30am	Seats (Total: 16) JMZ 1122
0301	Marilena Draganescu TuTh 9:00am - 10:30am	Seats (Total: 16) LEF 1221

UMEI007 **Advanced Writing for International Students**

Credits: 3 Grading Method: Sat-Fail, Audit

Restriction: Must have graduate standing.

A writing skills course for the non-native speaker of English with a good command of spoken English. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing.

0101	Cornell Brellenthin TuTh 1:00pm - 2:50pm	Seats (Total: 16) SQH 1121
0201	Susan Gould MW 9:00am - 10:30am	Seats (Total: 16) Location: TBA

UMEI008 **Advanced Oral Communication Skills**

(Perm req)

Credits: 2 Grading Method: Sat-Fail, Audit

For advanced non-native speakers of English. Practice in speaking skills relevant to the academic situation. Improvement of speaking skills for various classroom activities such as participating in discussions, making appointments with professors, asking for information and presenting oral reports. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing; and permission of EDUC-Dean-Maryland English Institute department.

0101	Susan Gould MW 3:30pm - 5:30pm	Seats (Total: 20) COL 3114

UNIV University Courses Fall 2017

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

0101	Erica Ely, Maria Bowman Contact instructor or department for details.	Seats (Total: 90)

0201	Angela Vaughn	Seats (Total: 90)
	Contact instructor or department for details.	
	Restricted to BMGT MS-specialty students; send an email to BMGT099@rhsmith.umd.edu for details.	

UNIV100 **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0010	Kyle Whitaker	Seats (Total: 20)
	Th 3:00pm - 4:50pm	JMZ 1122
	Course enrollment is limited to first-generation college students (i.e. students whose parents/guardians have not earned a four-year college degree). Please direct any questions to ctruesde@umd.edu.	
0101	Iceney Williams	Seats (Total: 20)
	Meets September 4, 2017 - November 17, 2017	
	Tu 11:00am - 12:20pm	HBK 0105
	Restricted to first semester students enrolled in UTerp program.	
0102	Troy Lewis	Seats (Total: 20)
	Meets September 4, 2017 - November 17, 2017	
	M 12:30pm - 1:50pm	TWS 1321
	Restricted to first semester students enrolled in UTerp program.	
0201	Brandon Clark	Seats (Total: 20)
	M 10:00am - 11:50am	TLF 1103
	Restricted to First Semester BSOS Majors.	
0202	Lindsey Winter	Seats (Total: 20)
	W 2:00pm - 3:50pm	TLF 1103
	Restricted to First Semester BSOS Majors.	

0203	TC Lloyd Th 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1115
0204	Caroline Bruchman, Christie Cradock Tu 10:00am - 11:50am *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) CHM 0124
0205	Maya Williams, Bailey Kier W 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1146
0206	Christa Slavin, Kenneth Kokason Th 10:00am - 11:50am *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) ATL 0201
0207	Rosalyn Anderson-Howell Tu 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) PLS 1111
0208	Kimberly Bethke M 3:00pm - 4:50pm *Restricted to First Semester BSOS Majors.*	Seats (Total: 20) KEY 0124
0305	Christopher Lester W 6:00pm - 7:50pm *Restricted to OMSE - College Success Scholars. Class will meet in Room Nonprint Media - Hornbake Library.*	Seats (Total: 20) Location: TBA
0306	Christopher Lester W 6:00pm - 7:50pm *OMSE- College Success Scholars. Class will meet in Room H Nonprint Medi - Hornbake Library.*	Seats (Total: 20) Location: TBA
0307	Christopher Lester W 6:00pm - 7:50pm *OMSE-College Success Scholars. Class will meet in Room H Nonprint Media - Hornbake Library.*	Seats (Total: 20) Location: TBA

0502	Jenny Froh Th 2:00pm - 3:50pm *Restricted to students in the College of Education.*	Seats (Total: 20) Location: TBA
0601	LaWanda Kamalidiin W 2:00pm - 3:50pm *Restricted to Engineering Bridge Program Participants.*	Seats (Total: 20) Location: TBA
0604	Shannon Hayes Th 3:00pm - 4:50pm *For Transfer Engineering Students only.*	Seats (Total: 20) PHY 4222
0702	Olive Reid Tu 3:15pm - 4:45pm *Restricted to Journalism majors.*	Seats (Total: 20) KNI 1206
0801	Thomas Steen **Meets September 4, 2017 - November 17, 2017** M 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences Students.*	Seats (Total: 20) PLS 1164
0802	Marchelle Payne-Gassaway **Meets September 4, 2017 - November 17, 2017** Tu 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) JMZ 1122
0803	Jacqueline Kautzer **Meets September 4, 2017 - November 17, 2017** Tu 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon Enterprising Cultures Community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 24) JMZ 0208
0804	Gregory Shaffer **Meets September 4, 2017 - November 17, 2017** M 12:00pm - 1:50pm *Restricted to First Semester Letters and Sciences Students interested in Pre-law.*	Seats (Total: 20) PLS 1115

0805	Ann Smith **Meets September 4, 2017 - November 17, 2017** M 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon Once & Future Planet community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 22) JMZ 1120
0806	Alexis Aduba **Meets September 4, 2017 - November 17, 2017** W 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences Students.*	Seats (Total: 20) LEF 1221
0807	Yenti Sunarto **Meets September 4, 2017 - November 17, 2017** Tu 11:00am - 12:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) LEF 1222
0808	Noah Jacobs **Meets September 4, 2017 - November 17, 2017** Tu 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1158
0809	Melissa Del Rios **Meets September 4, 2017 - November 17, 2017** W 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon iGIVE community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) JMZ 1120

0811	Dawn Simounet **Meets September 4, 2017 - November 17, 2017** M 3:30pm - 5:20pm	Seats (Total: 20) JMZ 2122
	For first semester Letters and Sciences students who are in the Carillon Once & Future Planet community. Part of the Carillon Communities Living Learning program.	
0812	Sarah Wilson **Meets September 4, 2017 - November 17, 2017** Tu 12:30pm - 2:20pm	Seats (Total: 20) EGR 1110
	For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.	
0814	Lisa Kiely **Meets September 4, 2017 - November 17, 2017** W 3:30pm - 5:20pm	Seats (Total: 20) JMZ 1215
	For first semester Letters and Sciences students who are in the Carillon iGIVE community. Part of the Carillon Communities Living Learning program.	
0815	Hana Zewdie, Dariya Brown **Meets September 4, 2017 - November 17, 2017** W 9:00am - 10:50am	Seats (Total: 20) WDS 0104
	Restricted to First Semester Letters and Sciences Students.	
0820	Amy Vaillancourt **Meets September 4, 2017 - November 17, 2017** Th 12:30pm - 2:20pm	Seats (Total: 20) BPS 1234
	For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.	

0822	Kristyn Lue **Meets September 4, 2017 - November 17, 2017** Th 9:30am - 11:20am *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) BPS 1234
0823	Shannon Donaldson **Meets September 4, 2017 - November 17, 2017** W 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) PHY 4222
0825	Yali Pan **Meets September 4, 2017 - November 17, 2017** M 11:00am - 12:50pm *Restricted to First SemesterInternational students in Letters and Sciences students.*	Seats (Total: 20) PLS 1164
0826	Matthew Sinclair **Meets September 4, 2017 - November 17, 2017** M 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) JMZ 2207
0841	Kalani Johnson **Meets September 4, 2017 - November 17, 2017** Tu 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) ATL 0201
0850	Devyn Sturdavant **Meets September 4, 2017 - November 17, 2017** W 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) PLS 1164

0851	Ruth Morris **Meets September 4, 2017 - November 17, 2017** M 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) LEF 1220
0852	Tricia Anne Arndts **Meets September 4, 2017 - November 17, 2017** W 3:00pm - 4:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) SKN 1112
0854	LaVonne Whitehead **Meets September 4, 2017 - November 17, 2017** M 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (Science, Technology, Mathematics, Engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1115
0858	Lisa Scheeler **Meets September 4, 2017 - November 17, 2017** M 3:00pm - 4:50pm *For first semester Letters and Sciences students interested in business Part of the Business Exploration Series.*	Seats (Total: 20) PHY 4222
0901	Thomas Gleason M 2:00pm - 3:50pm *Restricted to Physics majors.*	Seats (Total: 20) EGR 1104
0902	Matthew Cuozzo M 3:00pm - 4:50pm *Restricted to BioFire students.*	Seats (Total: 20) JMZ 0208
0903	Jennie Gouker Tu 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168

0904	Gene Ferrick Th 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) CHM 0119
0905	Moriah Petersen Tu 11:00am - 12:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) BPS 1234
0906	Marsha Guenzler-Stevens Tu 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) JMZ 1124
0907	Eden Garosi Tu 1:00pm - 2:50pm *Restricted to BSCI, BCHM and CHM students.*	Seats (Total: 20) PLS 1113
0908	Logan Anbinder Th 2:00pm - 3:50pm *Restricted to BSCI, BCHM and CHM students.*	Seats (Total: 20) CHM 0124
0910	Amy Alexander M 2:00pm - 3:50pm *Restricted to CMNS majors.*	Seats (Total: 20) SYM 0209
0912	Gerry Strumpf W 12:00pm - 1:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 15) COL 1102
0915	Kasey Ezzat M 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1111
0916	Alicia Thomas Tu 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) ATL 0201
0918	Hang Le W 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1158

0919	Stephanie Bent Th 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168
0920	Jessica Wilke F 1:00pm - 2:50pm *Restricted to students in College Park Scholars program.*	Seats (Total: 20) CCC 1200
0925	Justin Nero W 1:00pm - 2:30pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PHY 1219
0926	Lital Ehrlich M 2:00pm - 3:50pm *This section restricted to BioFIRE students.*	Seats (Total: 24) JMZ 0118
0927	Stephanie Carrington-Brown Tu 2:00pm - 3:50pm *Restricted for BioFire students.*	Seats (Total: 24) PHY 1219
1101	Michael Brick Tu 9:30am - 10:45am *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1102	Michael Brick Th 9:30am - 10:45am *Restricted to ARCH majors only; cannot be dropped without permission from college.*	Seats (Total: 18) ARC 1117
1201	Zackary Hull F 11:00am - 12:15pm *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0305
1202	Jaime Oliver Tu 3:30pm - 4:45pm *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0305
1203	Renee Stokes Th 9:30am - 10:45am *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0301

1204	Felicia Low Th 9:30am - 10:45am	Seats (Total: 20) JUL 1105
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1205	Ron Padron Th 2:00pm - 3:15pm	Seats (Total: 20) JMZ 1103
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1206	Leah Grosse W 11:00am - 12:15pm	Seats (Total: 20) WDS 1127
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1207	Polly Sebastian Schurer Tu 9:30am - 10:45am	Seats (Total: 20) SPH 0307
	Restricted to SPHL majors only; cannot be dropped without permission from college.	
1501	Hollin Roberts Th 2:00pm - 3:50pm	Seats (Total: 15) ARC 1123
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
1502	Heather Buchanan W 2:00pm - 3:50pm	Seats (Total: 15) PLS 1119
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
1503	Evelyn Cooper M 2:00pm - 3:50pm	Seats (Total: 15) PLS 1162
	Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.	
FC01	Gregory Shaffer M 7:30pm - 8:45pm	Seats (Total: 20) JMZ 0118
	Restricted to students in Freshmen Connection.	
FC02	Victoria Shay M 4:30pm - 5:45pm	Seats (Total: 20) PLS 1111
	Restricted to students in Freshmen Connection.	

FC03	Erin Iverson F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0126
FC04	Alison Barlow F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC05	Cameron Agerston W 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC06	Zabrina Anzyl W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1124
FC07	Briana O'Neal Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC08	Amanda Bachert M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1120
FC09	Lori Kader F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC10	Erin Iverson F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 1102
FC11	Steven Young F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1146
FC12	Steven Young M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) BPS 1228

FC13	J Darius Greene M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0121
FC14	Matthew Nessan Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 3315
FC15	LaVonne Whitehead F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 2116
FC16	David Toledo F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3207
FC17	Lori Kader Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC18	Thomas Steen M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3215
FC19	Raymond Nardella F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC20	Matthew Sinclair Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC21	Christopher Colclough Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) BPS 1234
FC22	Eric Johnson Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111

FC23	Denise McHugh Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC24	TC Lloyd Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1117
FC25	Sharon Vanwright F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1119
FC26	Mary Kot-Jansen Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) MTH 0104
FC27	Cait Belney Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 0120
FC28	Jordan Adams F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1117
FC29	Glenn Smith Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1120
FC30	Jamie Fry Tu 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC31	Veronica Perrigan F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CSI 3118
FC32	Jaime Oliver Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 2120

FC33	Heather Arianna Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3221
FC34	Erik Hanson Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0121
FC35	Candace Daniels F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 3102
FC36	Victoria Shay M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC37	Carli Weldon Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC38	Leah Grosse Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PHY 1204
FC39	Sarah Wilson F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) SYM 0215
FC40	Brandon Clark W 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KNI 1103
FC41	Yali Pan Tu 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1113
FC42	Alex Kalter Tu 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 3203

FC43	Michael Brick F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3211
FC44	Erica Smith Tu 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) JMZ 0120
FC45	Kimberly Bethke W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) WDS 0104
FC46	Jill Goldstein Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CHM 1224
FC47	Andrew Muir Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 0205
FC48	Mathew Shepard F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 1315
FC49	Valerie Goubeau F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CHE 2145

UNIV100V **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	Tasha Vanterpool M 3:30pm - 5:30pm	Seats (Total: 25) Location: TBA
	This section is reserved for VETERANS ONLY. DD214 required for verification.	

UNIV106 **The Transfer Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first-semester Letters and Sciences transfer student. Credit only granted for: UNIV106 or EDCP108G.

For transfer students in Letters and Sciences. This course is designed to assist students in making a successful transition to the University of Maryland (UMD) and to serve as an extended orientation to campus living and learning.

0101	Melissa Hyre Tu 11:00am - 12:15pm	Seats (Total: 20) WDS 0104
0201	Jeffrey Kodis Th 2:00pm - 3:15pm	Seats (Total: 20) EGR 1110
0301	Raquelle Contreras, Leslie Lindeman W 3:00pm - 4:15pm	Seats (Total: 20) BPS 1236

UNIV269 **Connecting Across Cultures**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269A **Connecting Across Cultures; Cultural Realities of Spain**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV325 **Beyond the Classroom Seminar I: Civic Engagement and Social Change in a Global Context**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Develops and applies the concept of civic engagement and strategies for enhancing civic engagement and advancing social justice in different contexts (global to local; multi-cultural). Develop students' leadership capacities and skills for fostering civil discourse and effective professional practices in the nonprofit and civil society sector. Students identify the key civic values, attitudes and expectations that motivate them personally as well as others to engage in civic action and leadership. Students prepare professional portfolios in preparation of a semester-long internship.

Restricted to students in Beyond the Classroom (BTC) living and learning program. Development of effective written and oral communication skills for a variety of constituents.

0101	James Riker Tu 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102
0201	James Riker W 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102

UNIV326 **Beyond the Classroom Seminar II**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: UNIV325. Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Seminar for students in internships and service-learning experiences as context for applying communication skills and knowledge of civic engagement leadership skills first introduced in UNIV325. Must be taken concurrently with experiential learning practicum.

0201	Melissa Del Rios Class time/details on ELMs	Seats (Total: 15) ONLINE

UNIV378 **Beyond the Classroom Experiential Learning; Beyond Classroom Experiential Learning**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

This is the internship component of the Beyond the Classroom program in which students hold internships at organizations such as governmental units and non-profit agencies.

0101	James Riker	Seats (Total: 15)
	Contact instructor or department for details.	

UNIV389A **Special Topics in Undergraduate Studies; Army ROTC Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Larry Rentz	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV389J **Special Topics in Undergraduate Studies; Federal Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: Permission of instructor.

0101	Joan Burton	Seats (Total: 25)
	Contact instructor or department for details.	
0201	Joan Burton	Seats (Total: 25)
	Contact instructor or department for details.	

UNIV389L **Special Topics in Undergraduate Studies; BTC Seminar III, Civic Leadership for Community Engagement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: UNIV325 and UNIV326.

0101	James Riker	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV399 **Experiential Learning in Undergraduate Studies**

Credits: 1-3 Grading Method: Regular

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

0101	Douglas Roberts Contact instructor or department for details.	Seats (Total: 1)
0201	Joan Burton Contact instructor or department for details.	Seats (Total: 10)

UNIV399C **Experiential Learning in Undergraduate Studies; Ensuring a World Fit for Children? Rethinking Our Civic Responsibilities**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Students will explore the status of children (i.e., standards of living) and the key challenges (i.e., education, health, homelessness, poverty, war and conflict) they face in around the world the 21st Century. What prospects do children born today face and what is required to ensure a world fit for children? What is the civic responsibility of citizens, government and society to address these challenges and improve the opportunities for all children? How can the international community strengthen its commitment to children's welfare, well-being, and life opportunities around the world? The seminar will highlight promising strategies for improving children's well-being in the United States, Europe, the Middle East and the developing world. The seminar will draw directly on the perspectives of leading nonprofit and civil society leaders through formal presentations and documentary films to identify possible policies and practices that will ensure a world fit for children.

0101	James Riker M 7:00pm - 9:00pm	Seats (Total: 40) SCC 1102

UNIV399Z **Experiential Learning in Undergraduate Studies; Rethink Human Security: Beyond the Immgration and the Refugee Crises**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Due to conflict, environmental disasters, and economic, people around the world are now confronting a world without citizenship. This seminar will explore the possibilities for promising solutions for enhancing human security and citizenship by 2030. Drawing on examples from around the world, students will examine the dynamics for local and global civic action in addressing the immigration and refugee around the world. This seminar series will draw on the professional insights and perspectives of civil society and government leaders as well as documentary films to explore these pressing issues

0101	James Riker W 7:00pm - 9:00pm	Seats (Total: 40) SCC 1102	

URSP Urban Studies and Planning Fall 2017

URSP250 **The Sustainable City: Exploring Opportunities and Challanges**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

An exploration, through an interdisciplinary approach, of a number of issues related to making cities more sustainable in terms of environmental protection, economic opportunity, and social justice. The course assist students to develop skills in critical analysis and systems thinking and to use those skills in analyzing sustainability related problems and potential solutions, and to expand students' understanding of the political implications of crafting and moving towards a sustainable urban future.

0101	Marccus Hendricks M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 33) ARC 0204 ARC 1101	 Discussion
0102	Marccus Hendricks M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 33) ARC 0204 ARC 1105	 Discussion
0103	Marccus Hendricks M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 33) ARC 0204 ARC 1103	 Discussion

URSP399I **Independent Study**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP601 **Research Methods**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit

Recommended: An undergraduate-level statistics course; and familiarity with Microsoft Excel. Formerly: URBS601.

Use of measurement, statistics, quantitative analysis, and micro-computers in urban studies and planning.

0101	Casey Dawkins W 7:00pm - 9:40pm	Seats (Total: 15) ARC 1115

URSP603 **Land Use Planning: Concepts and Techniques**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: URSP603, URBS680, or URBS603. Formerly: URBS603.

Land use concepts and definitions: legal context for planning; markets and planning; planning for housing; community services, employment, utilities, and transportation; zoning; subdivision regulations; growth management; plan implementation.

0101	Denis Superczynski M 7:00pm - 9:40pm	Seats (Total: 20) ARC 1105

URSP605 **Planning History and Theory**

Credits: 3 Grading Method: Regular, Audit

Examination of key, selected major events and issues in U.S. planning history and the development of the [planning profession; exploration of major themes in planning theory and practical applications of them; and analysis of the relationship of history and theory.

0101	Ariel Bierbaum Tu 4:00pm - 6:40pm	Seats (Total: 28) ARC 1105

URSP606 **Planning Economics**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed URSP630. Credit only granted for: URSP606, URBS606, or URBS630. Formerly: URBS606.

Resource allocation in a market economy, the nature of market failures, and the justifications for public sector intervention. The limits and possibilities for planning in a market economy.

0101	Chengri Ding M 4:00pm - 6:30pm	Seats (Total: 15) ARC 1119

URSP688L **Recent Developments in Urban Studies; Planning Technology**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

An introduction to technologies that are vital for contemporary planners. With a strong emphasis on practical skills, the course will provide students with fundamental concepts, hands-on experience and real-world applications of such urban planning technologies as web publishing and tools, search engine optimization, blogs, Twitter and social networking, Geographic Information Systems (GIS), data visualization, 3D modeling, mash-ups, digital design tools, web surveys, photo/video sharing (web/video conferencing), and crowdsourcing

0101	Chao Liu	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	ARC 0111

URSP688N **Recent Developments in Urban Studies; Urban Transportation Planning and Policy**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Hiroyuki Iseki	Seats (Total: 15)
	W 4:00pm - 6:40pm	ARC 1115

URSP688X **Recent Developments in Urban Studies; Planning, Policy, and Public Education**

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

This course explores the historical and contemporary interrelationships among metropolitan policy, planning practice, and public education. The course engages interdisciplinary scholarship, case studies, and guest speakers. It examines issues such as: school, neighborhood, and metropolitan segregation; schools as centers of community; school siting and land use; school facility planning and management; school transportation; education reform and school choice; school closures.

0101	Ariel Bierbaum	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1119

URSP688Z **Recent Developments in Urban Studies; Planning & Design in the Multicultural Metropolis**

Credits: 3

Grading Method: Regular,
Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Willow Lung Amam	Seats (Total: 20)
	W 4:00pm - 6:30pm	ARC 1119

URSP708 **Community Planning Studio**

Credits: 6

Grading Method: Regular,
Audit

The Community Planning Studio is a "capstone" course intended to provid students with an opportunity to apply their knowledge and skills to analyze current, pressing planning issues, in a selected community and to produce a report containing recommendations for addressing those issues. In essence, students act as a consulting team for a community client.

0101	Leland Edgecombe	Seats (Total: 12)
	Tu 7:00pm - 9:40pm	ARC 1119
	Th 4:00pm - 6:30pm	ARC 1119

URSP709 **Field Instruction**

Credits: 3

Grading Method: Regular,
Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0101	Casey Dawkins	Seats (Total: 20)
	Contact instructor or department for details.	

URSP710 **Research Seminar: Urban Theory and Issues**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: 15 credits in URSP courses. Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program. Formerly: URBS710.

An advanced research seminar for M.A. and M.C.P. students preparing their final research projects.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

URSP810 **Contemporary Metropolitan Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program.

Introduces Ph.D. students to current metropolitan issues. Focus is on the historical development of the issue, problem definition, methodological approaches to its study, methodological dilemmas, and the ways that different conclusions are translated into policy. Topics vary from semester to semester but include such topics as the spatial mismatch hpothesis, the impact of urban design and form on travel behavior, the impact of technology on urban form, the justification for historic preservation, and sustainable development.

0101	Gerrit Knaap	Seats (Total: 10)
	M 1:00pm - 3:40pm	ARC 1119

URSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

USLT Latina/o Studies Fall 2017

Please visit http://amst.umd.edu/programs/course/ for more course information.

USLT201 **U.S. Latina/o Studies I: An Historical Overview to the 1960's**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D

Interdisciplinary course focusing on demographics, terminology and social constructs of race, class, ethnicity, indigeneity, gender, and sexuality associated with the historical and political roots of US Latinidades. Examines the formation, evolution an adaptation of US Latina/o communities as critical field of inquiry.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1103

USLT318C **Topics in U.S. Latina/o; Forging the Tortilla Curtain: US-Mexico Borderlands History, 1800-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in U.S. Latina/o Studies

Also offered as USLT318C. Credit granted for HIST328A or USLT318C. The historical roots of the U.S.-Mexico border and borderlands landscape, 1800-present. Emphasis on the creation and militarization of the U.S.-MX border, the effects of border-making and free-enterprise on borderlands society, the development of U.S. immigration policy at the U.S.-MX border, the challenges of globalization, and the Mexican migration experience.

0101	Chantel Rodriguez	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0126

USLT318D **Topics in U.S. Latina/o; Latinidad: History, Race, Ethnicity, Gender and Place Across the Life Course**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in U.S. Latina/o Studies

Also offered as WMST379D. Credit granted for USLT318D or WMST379D. As of 2012, Hispanics and Latinos make up about 17% of the total U.S. population. Significant within group differences exist by national origin, place of birth, socioeconomic status in country of origin, racial phenotype, and educational attainment of family of origin. In this course, students will become informed on the historicity and heterogeneity within and among Latino subgroups by gender, race, nativity and class; become familiar with the contemporary theoretical discourse on understanding the social location of Latino/Hispanic subgroups including diasporic immigration patterns; and, critically analyze and understand the interplay of ethnicity, race, gender and class in formation and civic and political participation.

0101	Ruth Zambrana	Seats (Total: 30)
	F 10:00am - 12:30pm	SQH 1117

USLT319A **Special Topics in U.S. Latina/o; Afro-Latinx Diasporas**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special Topics in U.S. Latina/o Studies

Also offered as AMST328E. Credit granted for USLT319A or AMST328E. Students will examine the history of the African diaspora and the Afro-Latinx populations in the United States. Explores transnational migrations, comparative slave systems, labor, community formation, gender, sexuality, popular culture, and the changing meanings of blackness and latinidad.

0101	Nancy Mirabal	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	TWS 0134

USLT369A **Special Topics in Study Abroad III; Thinking in Andalusian: The Antonio Machado Family of Seville**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

USLT418C **Advanced Topics in U.S. Latina/o; Central American Diasporas**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special Topics in U.S. Latina/o Studies

Also offered as USLT418C. Credit granted for SPAN408R or USLT418C. Focus is placed on Central American Diasporas in the context of modern Central American societies, histories, (geo)politics, social and revolutionary movements, and cultural and literary production. It offers students an opportunity to learn more about Central America and its diasporic communities within and beyond the isthmus. Located between oceans, continents, and worldviews, the Central American isthmus has been a site of dispersion and cross-pollination of flora, fauna, peoples, cultures, and stories within and outside of the region. Covering El Salvador, Guatemala, Nicaragua, Honduras, Costa Rica, Panama, Belize, and their translocations, we will study representative Central American texts and critical diasporic literature in relation to exile, (im)migration, war, genocide, violence, transnationalism, globalization, among other topics.

0101	Ana Rodriguez	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 3120

USLT498D **US Latina/o Studies: Special Topics; Central Americans and the United States: Culture, Politics, and Community**

Credits: 3 Grading Method: Regular

Specific content to be announced when courses are offered.

Also offered as AMST498C. Credit granted for USLT498D or AMST498C.

0101	Robert Chester	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 0134

USLT498N **US Latina/o Studies: Special Topics; Globalization and the Diversifying US**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specific content to be announced when courses are offered.

Also offered as AMST498W and IMMR419J. Credit granted for USLT498N, AMST498W, or IMMR419J. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1101

VMSC Veterinary Medical Sciences Fall 2017

VMSC610 **Recombinant Viral Vectors**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

A comprehensive presentation of information on the molecular biology of the most relevent viral vectors developed to date and give insight on vector contruction, purification and utilization. Also intended for students in virology and related fields as well as to those interested in the application of viral vectors to basic research.

0101	Georgiy Belov W 11:00am - 1:30pm	Seats (Total: 10) Location: TBA

VMSC688A **Special Topics in Veterinary Medical Sciences; Protein Molecular Modeling Methods**

Credits: 3 Grading Method: Regular

Lectures and discussions on current topics in veterinary medicine s as animal disease surveillance, risk analysis, molecular epidemiolo or fish pathology. Targeted at veterinary medicine (DVM) students a other graduate students with a background in veterinary medical sciences.

0101	John Patton MW 9:00am - 10:15am	Seats (Total: 20) Location: TBA

VMSC689 **Use of Genomics and Proteomics in Infectious Disease**

Credits: 3 Grading Method: Regular, Audit

Focus is placed on current biotechnological development and recent research breakthroughs in the field of genomics and proteomics as it relates to infectious disease and drug/vaccine development.

0101	Utpal Pal, Daniel Nelson F 1:00pm - 4:00pm	Seats (Total: 15) Location: TBA

VMSC698 **Seminar in Veterinary Medical Science**

Credits: 1-3 Grading Method: Regular

Presentation and discussion of scientific publications, current topics and new methodologies related to veterinary medical sciences.

Class will meet in 1216 Gudelsky Building.

0101	Shin-Hee Kim Th 11:00am - 12:00pm	Seats (Total: 20) GVC 1216

VMSC699 **Special Problems in Veterinary Medical Sciences**

Credits: 1-4 Grading Method: Regular

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC700 **Animal Health Policy and Communication**

Credits: 3 Grading Method: Regular, Audit

Recommended: ANSC225 and ANSC340. Restriction: Must be in a major in AGNR-VA-MD Regional Col Veterinary Med; or must be in a major within the AGNR-Animal & Avian Sciences department; or must be in a major in PUAF-School of Public Policy; or permission of AGNR-VA-MD Regional Col Veterinary Med.

An introduction to animal health policy with emphasis on understanding how science and politics interact and influence animal health policy and how veterinarians and animal scientists can effectively communicate science to non-scientists such as legislators and policymakers.

0101	Nathaniel Tablante	Seats (Total: 10)
	TuTh 8:00am - 9:15am	ANS 0412

VMSC760 **Immunology of Infectious Diseases**

Credits: 3 Grading Method: Regular, Audit

An advanced graduate level course that focuses on the cutting-edge knowledge of immunity and recent research breakthroughs in the interactions between host immune system and infectious pathogen, and vaccine development

0101	Meiqing Shi	Seats (Total: 25)
	TuTh 1:45pm - 3:00pm	PLS 1115

VMSC780 **Parasites of Medical and Veterinary Importance**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of instructor.

Provides students with the basic knowledge of parasites as well as research advancement in important parasites of humans and animals. Particular attention will be given to parasite biology, pathogenesis, and host responses to parasitic infection. A selection of parasites of medical and veterinary importance will be specifically covered with emphasis on recent research breakthroughs in the field.

Contact department for information to register for this course.

VMSC799 **Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

VMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

VMSC899 **Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST Women's Studies Fall 2017

WMST200 **Introduction to Women's Studies: Women and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

An interdisciplinary study of the status, roles, and experiences of women in society. Sources from a variety of fields such as literature, psychology, history, and anthropology, focusing on the writings of women.

0101	Tangere Hoagland TuTh 8:00am - 9:15am	Seats (Total: 25) WDS 1130
0201	Tangere Hoagland TuTh 12:30pm - 1:45pm	Seats (Total: 25) TLF 1101
0301	Jocelyn Coates MWF 2:00pm - 2:50pm	Seats (Total: 25) TWS 0236

WMST250 **Introduction to Women's Studies: Women, Art and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSHU, DVUP

An examination of women's creative powers as expressed in selected examples of music, film, art, drama, poetry, fiction, and other literature. Explores women's creativity in relation to families, religion, education, ethnicity, class, sexuality, and within a cultural tradition shaped by women.

0201	Clara Montague TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 0125

0301	Clara Montague TuTh 9:30am - 10:45am	Seats (Total: 25) WDS 1130	
0401	Cara Snyder TuTh 2:00pm - 3:15pm	Seats (Total: 25) SYM 0209	
0501	Cara Snyder TuTh 11:00am - 12:15pm	Seats (Total: 25) ASY 3203	
0701	Nat Baldino MWF 11:00am - 11:50am	Seats (Total: 25) WDS 0104	
0801	Melissa Stevens MWF 12:00pm - 12:50pm	Seats (Total: 25) TYD 2110	
1001	Melissa Stevens MWF 10:00am - 10:50am	Seats (Total: 25) TYD 2110	
1301	Michele Prince TuTh 5:00pm - 6:15pm	Seats (Total: 45) KEY 0116	
1401	Michelle Rowley MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) LEF 2166 PLS 1113	Discussion
1402	Michelle Rowley MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) LEF 2166 PLS 1117	Discussion
1403	Michelle Rowley MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) LEF 2166 PHY 0405	Discussion
FC01	Justin Sprague MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KEY 0120	
FC02	Donnesha Blake MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 1124	

WMST255 **Reading Women Writing**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

Also offered as: ENGL250. Credit only granted for: WMST255 or ENGL250.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Lindsey O'Neil	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	KEY 0125

WMST265 **Constructions of Manhood and Womanhood in the Black Community**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO, D	General Education: DSHS, DVUP

Investigates the ways that African Americans are represented and constructed in public and private spheres and explores the social constructions and representations of Black manhood and womanhood from various disciplinary perspectives.

Also offered as AASP298B. Credit only granted for AASP298B or WMST265. Investigates the ways that African Americans are represented and constructed in public and private spheres and explores the social constructions and representations of Black manhood and womanhood from various disciplinary perspectives.

0101	Donnesha Blake	Seats (Total: 30)
	W 6:00pm - 8:30pm	JMZ 0103

WMST269G **Special Topics in Study Abroad II; Topics on Gender Studies**

Credits: 1-6	Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269I **Special Topics in Study Abroad II; Social Problems: Women's Issues (In Indian Society)**

Credits: 1-6	Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269W **Special Topics in Study Abroad II; Social Problems: Women's Issues Field Study**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST275 **World Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: CMLT275. Credit only granted for: WMST275 or CMLT275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Emilee Durand MW 2:00pm - 3:15pm	Seats (Total: 30) KEY 0102	
0301	Nataliya Pratsovyta TuTh 5:00pm - 6:15pm	Seats (Total: 30) KEY 0102	

WMST298L **Special Topics in Women's Studies; History of Sexuality in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Also offered as HIST213. Credit only granted for: HIST213, HIST219O, or WMST298L. Formerly: HIST219O. Explores the social construction of sexualities from the first colonial settlement to the modern era in the United States. Analyzes the implications of these understandings for power relations in U.S history.

0101	Clare Lyons MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 KEY 0121	Discussion
0102	Clare Lyons MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) SQH 1120 KEY 0121	Discussion

0103	Clare Lyons MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 TLF 2103	Discussion
0104	Clare Lyons MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) SQH 1120 TLF 2103	Discussion

WMST300 **Feminist Reconceptualizations of Knowledge**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department; and must be in Women's Studies program.

An examination of how the interdisciplinary study of women and gender has generated new questions, challenged traditional methodologies and offered insights on the ways we come to learn, know, and teach. Explores the impact of feminist thinking on various disciplines.

0101	Catherine Schuler Tu 3:30pm - 6:00pm	Seats (Total: 15) WDS 2101R

WMST314 **Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: AASP313. Credit only granted for: AASP313, AASP498W, HIST329E, WMST314, or WMST498N. Formerly: WMST498N.

Black American women's history from slavery to the present. Focused on gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social-change agents.

Also offered as AASP313 and HIST329E. Credit granted for AASP313, WMST314 and HIST329E.

0101	Elsa Barkley Brown M 6:00pm - 8:30pm	Seats (Total: 35) KEY 0103

WMST319B **Workshops in Women's Studies; Feminists Think, Act, Challenge**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics courses with emphasis on interdisciplinary and collaborative approaches.

Explores genealogies of feminist thinkers and activists from diverse groups of women of color, including Native American, Asian American, Chicana, and Black feminists. Building on their achievements and histories, students will articulate ways to create new feminist movements for our time, thinking, acting, and challenging state sponsored regimes of terror and oppression.

0101	Sina Lee MW 3:00pm - 4:15pm	Seats (Total: 20) TWS 1321

WMST336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: PSYC336. Credit only granted for: PSYC336 or WMST336.

A study of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students or WMST students only.

0101	Elizabeth Sauber MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 110) BPS 1250 ONLINE

WMST350 **Feminist Pedagogy**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department.

General application of feminist methodology to teaching and communication skills, teaching strategies, motivation, classroom dynamics and knowledge of students' development and learning styles.

Contact department for information to register for this course.

WMST369G **Special Topics in Study Abroad III; Gender and Post Socialist Transformation in Central Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST369L **Special Topics in Study Abroad III; Women and Society: Latin American Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST379A **Topics in Women's Studies; Honors Thesis Writing I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

0101	Michelle Rowley	Seats (Total: 1)
	Contact instructor or department for details.	

WMST379B **Topics in Women's Studies; Honors Thesis Writing II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

0101	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

WMST379D **Topics in Women's Studies; Latinidad: History, Race, Ethnicity, Gender and Place Across the Life Course**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in women's studies.

Also offered as USLT318D. Credit granted for USLT318D or WMST379D. As of 2012, Hispanics and Latinos make up about 17% of the total U.S. population. Significant within group differences exist by national origin, place of birth, socioeconomic status in country of origin, racial phenotype, and educational attainment of family of origin. In this course, students will become informed on the historicity and heterogeneity within and among Latino subgroups by gender, race, nativity and class; become familiar with the contemporary theoretical discourse on understanding the social location of Latino/Hispanic subgroups including diasporic immigration patterns; and, critically analyze and understand the interplay of ethnicity, race, gender and class in formation and civic and political participation.

0101	Ruth Zambrana	Seats (Total: 30)
	F 10:00am - 12:30pm	SQH 1117

WMST386 **Experiential Learning**

(Perm req) Credits: 1-6 Grading Method: Regular, Pass-Fail

Restriction: Must have Learning Proposal approved by Women's Studies Academic Advisor; and junior standing or higher.

Contact department for information to register for this course.

WMST400 Theories of Feminism

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course in WMST; or must have completed a course cross-listed with a WMST course.

A study of the multiplicity of feminist theories which have been developed to explain women's position in the family, the workplace, and society. Major feminist writings are considered in the context of their historical moment and in the context of the intellectual traditions to which they relate.

0101	Justin Sprague	Seats (Total: 30)
	TuTh 9:30am - 10:45am	ARC 1103

WMST452 Women in the Media

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Also offered as: JOUR452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	KNI 3202

WMST456 Women and Society in the Middle East

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Prior coursework in Middle East studies or gender studies. Also offered as: HIST492. Credit only granted for: HIST492 or WMST456.

Examines the customs, values and institutions that have shaped women's experience in the Middle East in the past and in the contemporary Middle East.

0101	Madeline Zilfi	Seats (Total: 15)
	Th 3:30pm - 6:00pm	TLF 2103

WMST471 **Women's Health**

Credits: 3 Grading Method: Regular, Audit , D

Restriction: Must be in a major within ARHU-Women's Studies department; or must be in a major within SPHL-Behavioral & Community Health department. Also offered as: HLTH471. Credit only granted for: HLTH471 or WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

Also offered as: HLTH471H.

0101	Kirsten Stoebenau MWF 10:00am - 10:50am	Seats (Total: 30) SPH 1303
0201	Kirsten Stoebenau MWF 10:00am - 10:50am	Seats (Total: 40) SPH 1303

WMST488L **Senior Seminar; From Lenin to Pussy Riot: Gendering Post Soviet Russia**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Seminar for advanced majors in women's studies or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Catherine Schuler Th 3:30pm - 6:00pm	Seats (Total: 14) WDS 2101R

WMST498A **Advanced Special Topics in Women's Studies; Community Interventions: Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Karen O'Brien MW 8:00am - 9:15am	Seats (Total: 35) PLS 1111

WMST498L **Advanced Special Topics in Women's Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

WMST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST601 **Approaches to Women's Studies I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: WMST400; or students who have taken courses with comparable content may contact the department.

Examines two fundamental concepts in women's studies: intersectionality and interdisciplinarity. Looks at how feminisms have shaped and been shaped by knowledge-production within and across disciplinary boundaries, cultures, and paradigms. Develops an appreciation of intersectional theory as a critical research tool and as a set of responses to issues of power, domination, oppression and other loci of difference.

0101	Alexis Lothian	Seats (Total: 15)
	W 6:00pm - 8:30pm	WDS 2101R

WMST618 **Feminist Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular

Examines the higher education classroom from a feminist perspective through theory and analysis. Students are graduate teaching assistants with the Women's Studies department.

Prerequisite: permission of department. For WMST major onlys.

0101	Michelle Rowley	Seats (Total: 4)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

WMST619 **Women's Studies Teaching Practicum**

(Perm req)

Credits: 1 Grading Method: Regular

Provides Women's Studies graduate teaching assistants with ongoing regular faculty supervision during the semesters the students are teaching WMST courses.

Prerequisite: permission of department. For WMST majors only.

0101	Elsa Barkley Brown	Seats (Total: 10)
	Contact instructor or department for details.	

WMST628 **Women's Studies Colloquium**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

An intensive advanced exploration of current problems and issues in women's studies.

0101	Lamonda Horton-Stallings	Seats (Total: 18)
	Contact instructor or department for details.	

WMST698O **Special Topics in Women's Studies; Black Sexualities**

Credits: 3 Grading Method: Regular, Audit

Advanced worik in selected topics in Women's Studies.

Also offered as AMST628B. Credit granted for AMST628B or WMST698O. An interdisciplinary and intersectional seminar on black sex and sexualities in the West. We will approach sex and sexuality as charged sites of social relationssites where power, pleasure, vulnerability, abjection, violence, knowledge, and freedom are produced and negotiated. The course curriculum will include visual culture, fiction, music, histories of sexualities, black feminist theory, sociology, queer of color critique, performance theory, affect studies, critical pornography

0101	La Marr Bruce	Seats (Total: 20)
	Th 4:00pm - 6:40pm	TWS 0134

WMST699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST709 **Directed Independent Reading for Major Field Exam**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Major Field Exam. In consultation with their advisors, students identify, analyze, critique and synthesize material relevant to their major fields of inquiry. Grading will be based on combinations of oral performance in the bi-weekly meetings, production of annotated bibliographies and synthetic papers.

Contact department for information to register for this course.

WMST799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

WMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.